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TRAFFIC & ENGINEERING SURVEY

FOR THE

CITY OF BELMONT

MAY 1982

BY

PUBLIC SERVICES/
ENGINEERING DEPARTMENT
AND
POLICE DEPARTMENT

CITY OF BELMONT

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Belmont, CA 94002

Office of: The City Manager

May 28, 1982

TO:

Honorable Mayor and City Council

FROM:

James P. DeChaine, City Manager



SUBJECT: TRAFFIC AND ENGINEERING SURVEY, DATED MAY 1982

The 1982 report of our Traffic and Engineering Survey for the establishment of speed limits on the local street system except El Camino Real, is herewith submitted for your review and action. This survey was prepared by the Engineering Staff in close cooperation with the Traffic Division of the Police Department in accordance with procedure outlined in Chapter 8 of the California Department of Transportation Traffic Manual. CALTRANS has primary responsibility for the traffic study and signing of El Camino Real.

Section 22350 of the California Vehicle Code - The Basic Speed Law - "states that no person shall drive at a speed greater than is reasonable or prudent....and in no event at a speed which endangers the safety of persons or property."

The majority of drivers comply with this law, and disregard regulations which they consider unreasonable. It is only the top fringe of drivers who are inclined to be reckless and unreliable, or who have faulty judgement and must be controlled by enforcement. Speed limits set at or slightly below the 85 percentile speed provide law enforcement officers with a means of controlling the drivers who will not conform to what the majority considers reasonable and prudent.

Only when roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers are speed limits below the 85 percentile warranted.

Respectfully submitted,

James P. DeChaine City Manager Digitized by the Internet Archive in 2024 with funding from State of California and California State Library

PREFACE

This study is jointly prepared by the Police Department and the Public Services/Engineering Department of the City of Belmont in accordance with the procedures outlined in Chapter 8 of the Traffic Manual of the Department of Transportation of the State of California. The radar checks, raw data on accidents and inventory of road conditions were gathered by the Traffic Division of the Police Department. The analysis and recommendations were done by the Engineering Division of the Public Services Department.

It is hoped that it will provide a sound and legal basis for enforcement of speed limits in the City.



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INTRODUCTION

A. GENERAL

A spot speed study involves the observation, recording and analysis of individual vehicle speeds of a point or "spot" on the roadway.

Speed is a basic value used to describe traffic flow. It is an important characteristic of traffic which is needed to make a wide variety of decisions with regard to traffic regulation and control and other analysis.

Realistic speed zoning is one of the traffic engineering applications of spot speed study. It involves the following:

- 1. Observing and measuring prevailing speeds;
- 2. Analyzing accident records;
- 3. Reviewing any unusual conditions not readily apparent to drivers;
- 4. Selecting a speed which will appear reasonable to the majority of drivers;
- 5. Posting the speed limit adequately to inform drivers.

Realistic speed zoning may have the following results:

- Reduce the speed differential in a traffic stream where there is a large variation of speeds. This makes driving easier, increases capacity and reduces the likelihood of accidents by encouraging most drivers to travel at about the same speed;
- 2. Give enforcement officials a good guide as to what a "reasonable and prudent" speed is under normal conditions and permits concentration of enforcement against real traffic violators;
- 3. Give motorists a speed limit which they can respect and obey. When drivers respect speed limits in areas with which they are familiar, they are more likely to pay attention to limits in unfamiliar areas;
- 4. Assist traffic courts by providing a realistic guide as to normal, reasonable and prudent speeds;



- 5. Give local residents a realistic picture of the actual speed of most traffic. There is no safety in blind reliance on a speed limit inconsistent with speeds actually traveled by traffic;
- 6. Insure that all speed zones satisfy the requirements of state law.

Realistic speed zoning will not automatically slow down or speed up all traffic. Traffic studies have shown that speed limits have a negligible effect on the majority of drivers, but realistic limits can sometimes be effective in bringing the non-conforming driver into line.

Speed zoning will not always satisfy local demands that "something" be done about traffic. In many cases, speed is not in itself the major problem. However, realistic zoning can be useful by giving local authorities a consistent, defensible basis for enforcement action.

B. PURPOSE

The purpose of this study is to establish a realistic speed zoning for all arterial and collector streets in the City. This has become important as a result of California state legislation requiring engineering and traffic surveys on all streets on which limit enforcement is done by radar speed check.

Thus, all arterial and collector streets in the City were surveyed. Checks made on these important streets at sufficient locations to insure that each street section having unique characteristics was individually surveyed. In addition, a representative street or streets from each of the residential neighborhoods in the City was surveyed in order to satisfy the California Vehicle Code Guidelines and enable the establishment of speed limits on the local street system.

Figure 1 shows the streets surveyed with the observation points indicated by asterisks.



SUMMARY AND CONCLUSION

LOCATION/SECTION	EXISTING SPEED	CRITICAL SPEED	RECOMMENDED SPEED
RALSTON AVENUE, WESTBOUND	weeklijklinkelijenoorijen-elijapatij		
Hiller Street to South Road	25	33	25
South Road to Alameda	25	31	30
Alameda to Hallmark Drive	35	38	35
Hallmark Drive to Junction Route 92	35	39	35
RALSTON AVENUE, EASTBOUND			
Junction Route 92 to Hallmark Drive	35	39	. 35
Hallmark Drive to 300' from Pullman Avenue Junction	35	42	35
Alameda to South Road	25	32	30
South Road to Hiller Street	25	32	25
Overpass	35	45	35
MIDDLE ROAD	25	29	. 25
OLD COUNTY ROAD			•.
North of Ralston Avenue	25	31	25
South of Ralston Avenue	25	30	25
ALAMEDA			
North of Ralston Avenue	25	25	25
South of Ralston Avenue	25	33	25
HALLMARK DRIVE	25	30	25
ELMER STREET	25	27	25
CIPRIANI BOULEVARD	25	28	25
RUTH AVENUE	25	36	25
EL VERANO WAY	25	36	25

LOCATION/SECTION	EXISTING SPEED	CRITICAL SPEED	RECOMMENDED SPEED
SOUTH ROAD	25	27	25
CHULA VISTA DRIVE	25	31	25
NOTRE DAME AVENUE	25	31	25
HILLER STREET	25	30	25
CHESTERTON AVENUE	25	29	25
SAN JUAN BOULEVARD	25	32	25
SHOREWAY ROAD	35	36	35
DAVEY GLEN ROAD	25	30	25
CARLMONT DRIVE	25	34	25
*LYALL WAY	25	32	- 25
*HASTINGS DRIVE	25	29	25

^{*} New streets added per Belmont Police Dept.

CHAPTER 1

STUDY PROCEDURES

A. CONDUCTING THE RADAR CHECKS

As described in the introduction, radar checks were made on all street sections in which the traffic speeds, the traffic volumes, the street width or other significant factors were different from an adjacent section. Thus, an important arterial may require speed surveys at several locations to account for changes in these factors where as a less important street with consistency in these areas may be sufficiently surveyed with just one check.

A test site was selected within the general location to reduce or eliminate the influence of the observers and measuring equipment. Factors considered were:

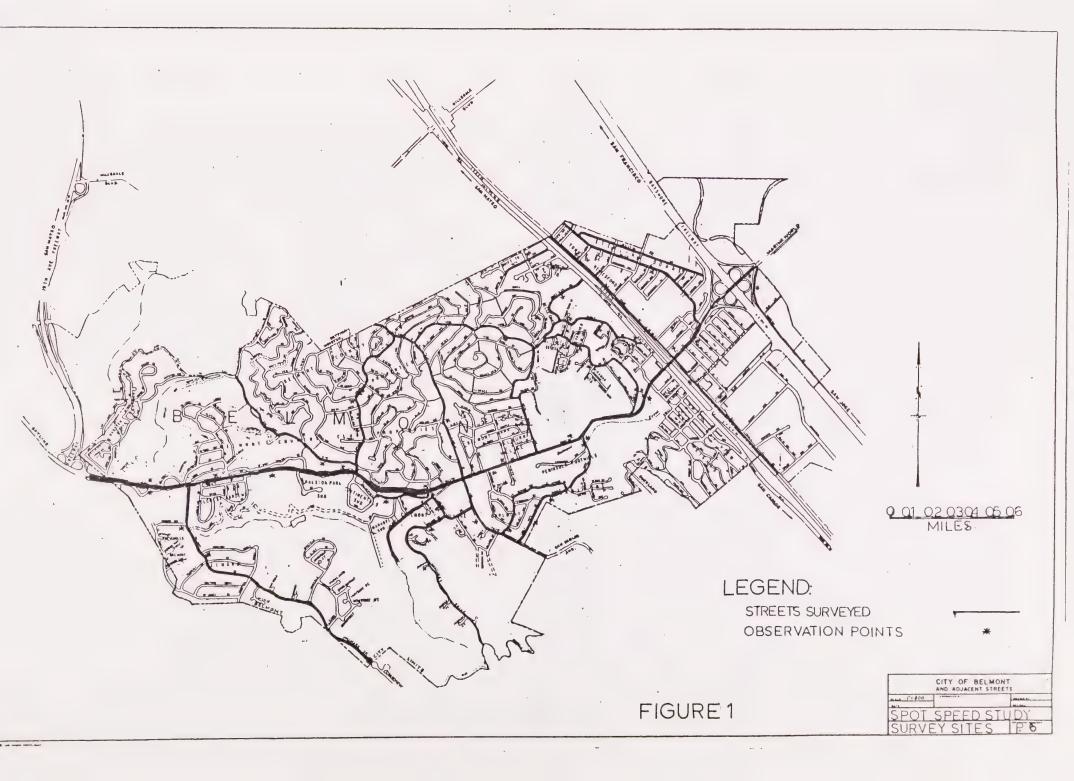
- 1. Equipment should be concealed from or made as inconspicuous as possible to, the approaching driver;
- 2. Observer should be located so that data are recorded without being obvious to drivers;
- 3. Observer's vehicle should be concealed or removed from site unless parking is general in the area;
- 4. Accumulation of on-lookers should be avoided.

To accomplish the above, an unmarked vehicle was used. A hand-held radar speed gun was utilized due to its versatility and ease of concealment from view. One police officer and one engineering staff member, in plain clothes, were assigned to do the survey. The officer would observe a single vehicle as it traveled within the radar range. The speed of the vehicle could be noted on the digital read out. This speed would be marked on the Spot Speed Analysis Sheet by the engineering member. A total of thirty-nine (39) locations were surveyed. (See Figure 1)

B. ANALYSIS OF DATA

Appendix I shows copies of spot speed analysis (two sheets for each location studied). The two columns of data at the top of the first sheet indicate the observed conditions and the observers, and calculated conditions and analyses on the right. Observed conditions include the location of the spot speed survey, the direction of travel of vehicles surveyed (on Ralston Avenue each direction is surveyed separately so that if appropriate, differing directional speed limits can be established), the day of week and the date and time of the survey along with the existing posted speed limit is noted, along with the width of the street surveyed.







Calculated values include the 50th percentile speed, the 85th percentile speed, the 10 m.p.h. pace speed, the percent of vehicles observed within the 10 m.p.h. pace speed, the total range of speeds observed, and the Skewness Index. All of these, except range of speeds, were obtained by graphic analysis as shown on the second sheet. These terms are explained as follows:

The 50th Percentile Speed is the speed above and below which 50 percent of the sample speeds lie. This is also known as the median or middle speed. It is a measure of the central tendency of the data.

The 85th Percentile Speed is that speed at or below which 85 percent of the observed vehicles are traveling. is sometimes referred to as the critical speed. It is a well recognized fact among traffic engineers that most drivers are able to drive at reasonable speeds without the benefit of any speed limits, speed signs, or enforcement. behavior of traffic is a good indication of the appropriate speed zone which should apply on a particular highway section. It is generally felt that at least 85 percent of the drivers operate at speeds which are reasonable and prudent for the conditions pertaining in each situation. The 85th percentile speed is the one characteristic of traffic speeds most nearly conforming to a safe speed. Therefore, the 85th percentile speed of a spot speed survey is the primary indication of a speed zone which might be imposed subject to the secondary factors of accident experience, traffic volumes, road features and other special situations.

The pace is the 10 miles per hour increment of observed speeds which contains the greatest number of vehicles. In nearly all cases, the 85th percentile speed and the recommended speed limit lie somewhere within the pace, frequently in the middle to upper ranges. It is another indicator that traffic engineers use to determine appropriate speed limits.

The percent of vehicles in the pace speed is an indication of the bunching of vehicular speeds. Ideally, if all vehicles would be traveling at or about the same speed, there would be a reduced likelihood of traffic collisions. In speed analysis, the higher the percent of vehicles within the pace speed the better the speed distribution.

The range of speeds is simply the speed of the fastest and slowest vehicles observed. A large range of speeds, for example, in excess of 30 m.p.h., indicates less favorable conditions than if there were a smaller range. The greater the range of vehicles observed, the more inconsistent the traffic stream and the greater the likelihood of traffic collisions.



The Skewness Index is calculated as a check on the adequacy of the spot speed study to determine if the speed check favors either fast or slow moving traffic. A skewness index of 1.0 indicates symmetry about the median, a value below 1.0 indicates that the distribution is skewed or slated toward lower speeds, and index above 1.0 is toward higher speeds. A strong skew to high speeds indicates that some geometric factor of the roadway is preventing those vehicles which would normally travel at "excessive or very high speeds" are prevented from doing so. On uncongested roads the distribution of speeds has very little skewness, but travel times are skewed toward longer travel times. On congested roads speed distributions are skewed toward the higher speeds. A skewness of between 0.75 and 1.50 is generally considered to be representative of the observed vehicle speeds.

The Skewness Index is computed from the cumulative percentile values as follows:

Skewness Index =
$$\frac{2 \times (P93 - P50)}{P}$$

93 - 7

where $^{\mathrm{p}}$ 93, $^{\mathrm{p}}$ 50 and $^{\mathrm{p}}$ 7 are the 93rd, 50th and 7th percentile speeds, respectively.

At the bottom portion of the first sheet (Remarks), are summaries of Accident Experience and Road Features that affect the judgment aspect of setting the final speed limits.

C. ACCIDENT REVIEW

Accident records are essential in speed limit establishment. This fact is shown by the following excerpts on speed, accident and safety:

- "Speed of Vehicle Preceding Accident Statistics . . .
 illustrate the fact that accidents at higher speeds are
 much more severe."1
- 2. "Driver Violations Indicated 50% of the drivers involved in fatal and injury accidents are reported to have violated a section of the Vehicle Code. Most common violations reported include 'exceeding safe speed but not limit.' In fatal accidents, other violations leading to substantial number of accidents were exceeding stated speed limit . . ."2
- 3. "Four or more accidents at one location in a year warrant an investigation."

^{1.} Ref. 2 page 9-9, paragraph 6d.

^{2.} Ibid. page 9-9, paragraph 7a.

^{3.} Ibid. page 9-11, paragraph 2a.



4. "Accident frequency and severity versus speed - Various safety campaigns aimed at drivers have attempted to persuade them that speed is the cause of almost all accidents, and that if speed can be controlled, accidents will be prevented or reduced.

Statistics have generally shown that the imposition of a speed limit in an urban area leads to a reduction in serious injury rate and in the overall accident rate on a specific highway section. The most marked general effect of the imposition of speed limits has been a reduction in fatal accidents.

A study made by the Federal Highway Administration reveals the following: Accident-involvement rates are the highest at very low speeds, are lowest at about the average speeds, and increase again at very high speeds. A principal conclusion is that the more a driver deviates from the average speed of traffic, the greater his chance of being involved in an accident . . "4

With these excerpts as guidelines, accidents in all the surveyed streets are reviewed to determine locations of higher accident incidence. Before setting the final limits, the accident rates, accident problems and accident distributions were analyzed. The accident rates are shown under "Remarks" at the bottom of sheet one of Spot Speed Analysis Sheets. (Appendix I)

Table I shows pertinent data used in the accident rate analysis.

The accident rate was calculated with the following formula:

$$R = \frac{A \times 10^6}{365 \times ADT \times L}$$

where R = Accident rate in million vehicle - miles,

A = Accidents recorded in one year (the average

of 1978 to 1981 in this study),

ADT = Average daily traffic

L = Length in miles

D. REVIEW OF OTHER CONDITIONS

Variables which influence speeds were reviewed. These variables include:

- 1. Traffic flow Volume ADT (average daily traffic) shown as item 2 under "Remarks" of sheet 1 of Appendix I.
- 2. Physical Conditions:
 - a. Traffic signals, lanes, medians, etc.
 - b. Stop signs

^{4.} Ref. 1 pages 854-855.



2. Physical Conditions, cont.

- c. Land use or development like residential, business, schools, community facilities, etc.
- d. Curvature, grade, sight distances
- e. Pedestrians, etc.

Conditions considered important in selecting the proper speed limits are summarized in item 3 under "Remarks" of sheet 1 of Appendix I.

Detailed breakdown of the physical conditions on the road, along the road or off the road, conditions that affect the judgment on selecting proper speed limits, are shown under Appendix II.

E. DRIVING THE STREETS

This part of the study is of great significance in the judgment aspect of selecting the final speed limits. The analyst has been driving all the streets surveyed prior to this study. a final field observation, each of these streets were driven on while "floating" with prevailing traffic to determine the speed of traffic which is reasonable from the driver's standpoint. Equipped with the previously described data analysis, he was particularly cognizant of the 85th percentile speed and the pace speed. He evaluated the appropriateness of the 85th percentile and added the perspective of human judgment to the speed limit setting process. Such factors as roadside development, driveways, parked vehicles, emergency shoulder areas, school and other community centers, horizontal and vertical alignment of the roadway, intersection visibility and control and numerous other less tangible factors - all go into the judgment producing a final recommended limit.



TABLE I ACCIDENT RATES

LOCATION/SECTION	ADT (1975)	ACCIDENT (1978-1981) AVERAGE	LENGTH (MILE)	ACC. RATE PER MVM*
RALSTON AVENUE				
100-500 Block	21,100	19.125	0.208	11.94
500-1000 "	19,600	39.000	0.303	17.99
1000-1500 "	20,900	11.250	0.530	2.78
1500-1900 "	20,900	17.000	0.436	5.11
1900-2400 "	19,400	12.750	0.568	3.17
2400-2600 "	19,000	7.75	0.341	3.28
2600-2700 "	18,300	7.50	0.379	2.96
2700-3000 "	10,700	3.125	0.606	1.32
300-700 Block, MIDDLE ROAD	2,000	8.00	0.625	17.53
OLD COUNTY ROAD, North of Ralston	8,400	28.125	0.814	11.27
OLD COUNTY ROAD, South of Ralston	6,000	16.625	0.682	11.13
ALAMEDA, North of Ralston	8,400	15.75	0.947	5.42
ALAMEDA, South of Ralston	16,600	27.75	0.606	7.56
2400-2800 Block, HALLMARK DRIVE	4,400	4.00	0.455	5.47
1000-1200 Block, ELMER STREET	-	4.00	0.227	4/year
2100-2600 Block, CIPRIANI BLVD.	7,300	9.50	0.682	5.23
RALSTON OVERPASS	. -	1.75		1.75/yr
300-900 Block, RUTH AVENUE	-	10.00	0.208	10/yr
1800-1900 Block, EL VERANO WAY	-	0.75	0.342	.75/yr
300-900 Block, SOUTH ROAD	-	2.50	0.92	2.5/yr
1000-1900 Block, CHULA VISTA DRIVE	2,200	7.75	.682	14.15
200-900 Block, NOTRE DAME AVENUE	2,500	11.00	1.326	9.09
200-900 Block, HILLER STREET	5,500	6.25	0.89	3.50
000-1200 Block, HILLER STREET	-	2.50	0.227	2.50/yr
		diantad		

Million - vehicle - miles, unless otherwise indicated.



LOCATION/SECTION	ADT (<u>1975</u>)	ACCIDENT (1978-1981) <u>AVERAGE</u>	LENGTH (MILE)	ACC. RATE PER MVM*
300-600 Block, CHESTERTON AVNEUE	-	0.00	0.682	0/yr
2800-3000 Block, SAN JUAN BLVD.	1,000	2.50	0.800	8.56
SHOREWAY ROAD, Within City Limits	-	2.75	0.795	2.75/yr
200-500 Block, DAVEY GLEN ROAD	1,600	15.75	0.341	79.09
2100-2500 Block, CARLMONT DRIVE	3,800	9.75	0.682	10.31
2200-2600 Block, HASTINGS DRIVE	on.	2.50	0.900	2.50/yr
LYALL AVE., Continentals to Ralston	-	6.00	0.300	6/yr

Million - vehicle - miles, unless otherwise indicated.

TABLE I ANNEX

ACCIDENT EXPERIENCE

1978-1931

ALAMEDA DE LAS PULGAS	1981	1980	1979	1978
Alden Street Arbor Avenue Belle Monti Avenue Carlmont Drive Cipriani Boulevard Chula Vista Drive Coronet Boulevard Covington Road El Verano Way Forest Avenue Garden Court Notre Dame Avenue Mezes Avenue Ralston Avenue San Carlos Avenue Lyons Avenue Valerga Drive	1 0 3 2 1 0 1 0 1 0 0 17 6 1 - 1 36	1 0 1 8 0 1 0 1 1 2 0 0 28 6 0 3 53	0 1 0 6 1 3 0 3 2 0 1 0 1 1 9 7 0 1 45	2 0 0 5 0 0 0 0 2 0 1 0 1 24 4 0 1
CARLMONT DRIVE		•		
Alameda de las Pulgas Hastings Drive Lake Road Merry Moppet Mulberry Court Village Drive	3 2 2 4 1 3 15	1 2 3 2 4 1 13	0 1 3 0 0 0 3 7	0 2 2 0 0 0 0
CHULA VISTA DRIVE				
Alameda de las Pulgas Escondido Way Fernwood Way Ralston Avenue Solana Drive	1 0 9 1 12	3 2 0 2 0 7	2 2 2 1 1 8	0 1 2 0 4
HASTINGS DRIVE				
Carlmont Drive Witheridge Road Bridge Court Ridgewood Court	2 0 0 -0 -2	2 0 0 1 3	1 0 0 -0 1	2 0 1 1 4

CIPRIANI BOULEVARD	1981	1980	1979	1978
Buena Vista Avenue Continentals Way Carmelita Avenue Lincoln Avenue Palmer Avenue Prindle Road Ralston Avenue San Juan Boulevard Semeria Avenue	1 0 2 1 0 1 8 1 0	0 0 1 1 0 0 5 2 1	2 0 1 1 0 1 1 2 0 8	0 1 0 2 0 0 3 0 0
CHESTERTON AVENUE				
Oxford Way	. 0	0	0	0
DAVEY GLEN ROAD				
El Camino Real Middle Road	16 <u>1</u> 17	16 1 17	19 0 19	10 0 10
ELMER STREET O'Neill Avenue Ralston Avenue Waltermire	1 4 0 5	0 3 1 4	1 1 <u>0</u> 2	1 3 1 5
EL VERANO WAY				
Maywood Drive Fernwood Way Alameda de las Pulgas	0 0 0 0	1 0 1 2	2 0 0 2	0 0 1
LYALL WAY				
Continentals Way Lake Road Merry Moppett Lane Ralston Avenue Waterdog Lake Rd. Carlmont	0 2 0 3 0 0 5	2 1 0 2 0 1 6	2 1 0 4 0 0 7	1 0 4 1 <u>0</u> 7

HILLER STREET	1981	1980	1979	1978
Briarfield Way Biddulph Way Cornish Way Chesterton Ave. Masonic Way O'Neill Avenue Cambridge Street Oxford Way Roxbury Way Sussex Wessex Ralston Ave.	1 0 0 0 0 0 0 1 0 0 1 2	0 0 0 1 1 0 0 0 0 3 0	0 0 0 1 0 0 1 0 0 0 2 7	0 2 2 1 1 2 0 0 1 0 1 4 14
HALLMARK DRIVE	0	1	2	_
Benson Way Ralston Avenue Wakefield Drive Comstock Circle	- 0 0 0 - 1 1	1 0 0 0 1	2 1 0 1 4	5 2 1 1 9
MIDDLE ROAD				
El Camino Real Virginia Avenue Central School Cypress Avenue Hainline Drive Willow Lane Laurel Court Davey Glen Road Notre Dame Avenue	6 0 0 0 0 0 0 0 0	6 0 0 1 0 3 0 0 0	5 0 0 0 1 0 0 0 0 0	6 0 0 0 0 1 0 1 0
OLD COUNTY ROAD				
Crestview Avenue Daleview Avenue Marine View Mountain View Avenue Masonic Way O'Neill Avenue Harbor Boulevard Waltermire Ralston Sterling View	0 2 8 1 9 0 5 2 13 3	2 6 4 2 4 1 7 4 12 <u>3</u> 45	3 3 12 2 5 1 5 2 10 1	3 1 6 5 7 2 2 1 9 0 36

NOTRE DAME AVENUE	1981	1980	1979	1978
Alameda de las Pulgas Arbor Avenue Belburn Drive Francis Avenue Folger Drive Hillman Avenue Manzanita Avenue Middle Road Mezes Avenue North Road Ralston Avenue Terrace Drive Ridge Road Belle Monti Avenue Valley View Clee	0 2 0 0 1 4 1 0 1 1 0 0 0 0 0	0 0 0 0 2 3 0 0 0 0 1 2 0 0	0 0 0 0 2 1 0 1 2 1 3 3 0 0 1 0	1 0 0 0 1 3 1 0 1 0 0 0 0 0
SAN JUAN BOULEVARD				
Cipriani Boulevard East Laurel Creek Monte Cresta	0 1 2 3	0 0 1	0 0 3 3	0 0 1 1
SOUTH ROAD				
Debbie Lane Hainline Drive Holly Road Miramar Terrace Southview Court College View Way	0 0 1 0 1 0	0 1 0 1 1 1 1	1 1 1 1 0	2 0 3 0 0 0 0 5
RUTH AVENUE				
El Camino Real North Road Malcolm Avenue	10 0 0 10	8 0 1 9	3 1 1 -5	11 2 3 16

		1980	1979	1978
Entrance to Holiday Inn Marine World Parkway Sem Lane Ralston Avenue	0 1 0 0 0	0 1 1 0 2	0 3 0 2 5	0 1 2 0 3
Hiller Street Notre Dame College Alameda de las Pulgas S.P. Railroad Crossing Cipriani Boulevard Belmont Canyon Road Highway 101 Villa Avenue Sixth Street Avon Street Chevy Street Chula Vista Drive Coronet El Camino Real Hallmark Drive Lyall Way Maywood Drive Notre Dame Avenue Old County Road Tahoe Drive Academy Avenue Christian Drive Continentals Way Davis Drive Elmer Street Granada Street Lassen Drive South Road Pullman Avenue Shoreway Road Furlong Street Hillcrest Drive Irwin Street	5 0 7 0 8 1 0 6 8 1 2 9 0 2 1 2 2 3 1 4 2 2 1 2 2 4 6 4 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 5 2 5 4 4 7 15 2 1 8 0 13 1 2 1 0 7 2 3 0 3 2 6 5 1 1 2 1 1 2 1 2 1 2 1 1 2 2 1 2 1 2 3 1 2 1 2	5 2 4 1 1 3 2 6 1 1 1 6 0 0 0 0 4 3 1 4 2 4 7 1 5 3 3 2 1 2 1 5 3 3 3 2 1 2 1 5 3 3 3 2 1 2 5 3 3 3 2 1 2 5 3 3 3 2 1 2 5 3 3 3 2 3 3 3 2 3 3 3 3 3 3 3 3 3 3	015026151225032420443064351261240 117

TOTAL NUMBER OF ACCIDENTS ON ALL STREETS IN BELMONT

318 321 315 300



CHAPTER II

STUDY RESULTS

A. SELECTING THE PROPER SPEED LIMITS

"Experience has shown that the 85th percentile speed is the one characteristic of traffic speeds most nearly conforming to a 'safe and reasonable limit.' Speed limits set higher than the critical speed will make very few additional drivers 'legal' for each 5 mph increment of speed increased. Speed limits set lower than the critical speed will make a large number of drivers 'illegal' for each 5 mph increment speed reduced." This is demonstrated by the Cumulative Frequency Curve of Ralston Avenue Westbound, 1000-1500 Block (which is almost a normal distribution curve). An increase of 5 miles to 37 mph from the 32 mph 85th percentile speed would "legalize" an additional 15% of the sample traffic, while a decrease of 5 miles to 27 would make "violators" of an additional 40% of the sampled traffic.

It should be noted that speed limits on two-lane local residential streets tend to be somewhat further removed from the critical (85th) speed than those on the multi-lane arterial street without residential frontages. This points out a specific problem area in Belmont (and one which exists in many other cities): the continuing need for enforcement of the 25 mph speed limit in residential districts. Even as high as 70 or 75 percent of motorists were observed traveling in excess of the 25 mph "prima facie" residential speed limit. This does not necessarily mean, though, that the 25 mph limit is inappropriate; merely, that the majority of the motorists sampled were driving imprudently.

For practical purposes, unless warranted by accident experience and other conditions, the 5 mph increment at or immediately below the 85th percentile (or upper limit of the pace) is the numerical value selected for posting a "realistic" and "enforceable" speed limit.

B. SETTING THE FINAL SPEED LIMITS

As a final aid to establishing realistic speed zones (limits), the following practical considerations were kept in mind:

 Intermediate speed limits are applicable to through routes having positive intersection controls, good signing, striping and markings to accommodate appreciable volumes of traffic from beyond the immediate neighborhood;

^{5.} Ref. 3, 1976, page 14



- B. SETTING THE FINAL SPEED LIMITS, cont.
 - 2. Unusually short zones of less than a half mile in length should be avoided whenever possible;
 - 3. Speed zone changes should be coordinated with visible changes in roadway conditions or roadside development;
 - 4. Speed zoning should be coordinated with adjacent jurisdictions to assure compatibility.

The final recommended speed limits are set as follows:

RALSTON AVENUE - This street is a high volume arterial connecting Highway 101 (Bayshore Freeway) and Highway 280 (Junipero Serra Freeway). It is recommended that the speed limit be changed from 25 mph to 30 mph from South Road to Alameda. With all the statistics in the spot speed analysis and the positive intersection controls, good signing, striping and markings, it is felt that these changes are appropriate. The following is recommended:

WESTBOUND:

From Hiller Street to South Road the 25 mph be maintained.

From South Road to Alameda, change 25 mph to 30 mph. In this area less than 15% of the vehicles are obeying the existing 25 mph limit and it is not felt that the raising of the speed limit on this section will increase the speeds but rather merely bring more motorists within the lawful limit. This is compatible with accident experience and road conditions. There was a big overall reduction in accidents after the improvement of the road despite the subsequent increase in actual speeds.

Between Alameda and Hallmark Drive, maintain the 35 mph limit.

From Hallmark Drive to Junction with Highway 92 (19th Avenue Freeway) maintain 35 mph.

EASTBOUND:

From Christian Drive to Hallmark Drive, maintain 35 mph.

From Hallmark Drive to 300 feet from Pullman Avenue junction, maintain the 35 mph limit. This is compatible with the presence of the Ralston Intermediate School and the business complex on Davis Drive plus the steep downgrade.



EASTBOUND (RALSTON), cont.

Between Alameda and South Road make the 25 mph to 30 mph the same change as the Westbound for this section.

From South Road to Hiller, don't change the existing 25 mph limit.

OVERPASS SECTION: No change is recommended for the posted speed limit of 35 mph.

MIDDLE ROAD - This is a winding, steep grade road with limited sight distances. The existing 25 mph limit is deemed alright as is also shown by the speed study.

OLD COUNTY ROAD - It is recommended that the 25 mph limit be maintained. There is a high accident rate and the land use, residential mixed with business, warrants this limit.

ALAMEDA DE LAS PULGAS - This is an arterial street in the North - South direction. It is felt that no change in the present 25 mph limit be made. The section North of Ralston is narrow and winding with steep grades and limited sight distances. The sample data would warrant setting the limit at 30 mph but this is good only for a limited stretch of the road. For the sake of continuity, set the limit at 25 mph. For the section South of Ralston Avenue, the no-change recommendation is based on the nature of the roadside developments.

HALLMARK DRIVE - This is a collector street that serves a residential area. The 25 mph speed limit is deemed alright. This is recommended to avoid short zones of less than a half mile in length; (data was taken on short tangents).

ELMER STREET - This street is mixed use throughout most of its length. The posted 25 mph limit is considered prudent.

CIPRIANI BOULEVARD - This is a collector street which is narrow, winding (typical Belmont street) with limited sight distances. It is recommended that the existing 25 mph limit be retained.

RUTH AVENUE - This is a short stretch of road connecting a state highway to an uphill residential area. It is felt that the present 25 mph limit is appropriate.

EL VERANO WAY - All the data and judgment lead us to recommend sticking to the existing 25 mph limit.

SOUTH ROAD - This is another narrow and winding collector street. It is recommended that the 25 mph limit will remain.

CHULA VISTA DRIVE - The existing 25 mph speed is being violated by 58% of the sampled vehicles. This does not mean that the limit is low, only, that majority of the motorists are driving imprudently. No change in the limit is recommended.



NOTRE DAME AVENUE - This street is the narrowest of the collector streets in Belmont and the spot speed data seemed out of proportion. This data was taken at a section where the tendency is to rush or speed up (short section). It is recommended that the 25 mph limit will remain.

HILLER STREET AND CHESTERTON STREET - These are residential collector streets with the least curves and the most level grades. It is felt that the 25 mph limit is appropriate in this area.

SAN JUAN BOULEVARD - All the data points to a recommendation of retaining the posted 25 mph limit.

SHOREWAY ROAD - This is a frontage street connecting Belmont with San Carlos. The sample shows that most of the drivers are driving too slow. (Skewness Index is less than 1.0 and more than 30% are below the pace speed). It is recommended that the posted 35 mph limit remain.

DAVEY GLEN ROAD - This street starts from a state highway and goes upgrade to a curve. The posted limit of 25 mph is considered appropriate for this street.

CARLMONT DRIVE - This street is of mixed use of residential and business. It is recommended that the limit be maintained at 25 mph.

LYALL WAY - This street which has a steep downgrade/upgrade connects Continentals Way to Ralston Avenue. With Merry Moppett School on the south side and is recommended that the 25 mph be maintained.

HASTINGS WAY - This street serves a residential area and there is a steep upgrade/downgrade. It is recommended that the 25 mph limit be maintained due to the steepness of road and limited sight distances.



CHAPTER III

RECOMMENDATIONS AND CONCLUSION

Just a few changes are recommended as a result of this study. These are coordinated with the visible changes in the roadway conditions and the roadside development. Ralston Avenue has all these visible changes (improvements), hence, the recommendation for increase in the limits at some sections as shown in Table III.

The "prima facie" speed limits in most of the streets were not raised or lowered as the spot speed data would warrant. This was due to the other conditions in the streets like narrow width, curves, upgrades and downgrades with limited sight distances and the presence of "vintage" trees. These other conditions are recommended for subjects of further study with other methods of "Traffic Safety and Engineering".

Table II and Table III show the final recommendations and conclusion for this study.



TABLETI

SUMMARY OF SPOT SPEED ANALYSIS

LOCATION/SECTION	AVERAGE SPEED 50th	CRITICAL SPEED 85th	10 MPH PACE SPEED	% IN PACE	SKEWNESS INDEX	EXISTING SPEED	RECOMMENDED SPEED
RALSTON AVENUE, WESTBOUND							
100 - 500 Block	27	32	21-31	73.72	1.00	25	25
500-1000" "	29	34	23-33	81.22	1.08	25	25
1000-1500 "	27	32	22-32	92.61	0.92	25	30
1500-1900 "	27	31	22-32	89.76	1.09	25	30
1900-2400 "	34	38	28-38	72.72	0.67	35	35
2400-2600 "	33	40	27-37	64.46	1.00	35	35
2600-2700 "	36	41	31-41	73.52	0.93	35	35
2700-3000 "	34	39	26-36	69.12	0.92	35	35
RALSTON AVENUE, EASTBOUND							
3000-2700 Block	35	39	28-38	81.57	1.17	35	35
2700-2400 "	38	42	34-44	76.74	0.92	35	. 35
2400-2100 "	37	42	32-42	76.24	0.86	35	35
2100-1500 "	26	29	20-30	87.74	1.09	25	30
1500-1000 "	31	35	26-36	94.84	1.11	25	30
1000 - 500 "	28.	32	23-33	82.20	0.92	25	25
500 - 100 "	29	33	23-33	79.40	0.92	25	25
RALSTON OVERPASS	40	45	35-45	63.64	0.67	35	35

4)
0	J
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SPEED RECOMMENDED	SPEED	INDEX 2KEMNE22	% IN	JO MPH PACE SPEED	CRITICAL SPEED 85th	SPEED SOEED AJOS	LOCATION/SECTION
52	52	1.20	91.47	72-71	59	23	300-700 Block, MIDDLE ROAD
52	52	68.0	85.95	22-32	18	28	OLD COUNTY ROAD, North of Ralston
52	52	6.93	41.87	19-29	30	56	ULD COUNTY ROAD, South of Ralston
52	52	00. F	00.86	3.72-3.71	52	23	ALAMEDA, North of Ralston
52	52	80.1	88.88	24-34	33	28	ALAMEDA, South of Ralston
52	52	46.0	67.59	22-32	32	56	2400-2800 Block, HALLMARK DRIVE
52	SZ	£8.1	02.06	20-30	53	52	2800-2900 Block, HALLMARK DRIVE
SZ	52	00°1	LL.68	18-28	72	23	1000-1200 Block, ELMER STREET
52	SZ	77.0	21,67	20-30	58	52	S100-2600 Block, CIPRIANI BLVD.
SS	52	11.1	64,29	24-34	98	52	800 - 900 Block, RUTH AVENUE
52	52	00°l	£7.27	82-81	. 56	. 22	1800-1900 Block, EL VERANO WAY
52	52	00°L	75.07	20-30	72	24	300 - 900 Block, SOUTH ROAD
52	52	70.1	06.18	18-12	33	75	1000-1900 Block, CHULA VISTA DRIVE
52	52	00.1	08.47	20-30	18	56	2000 - 900 Block, NOTRE DAME AVENUE
52	52	۷۱.۱	96°08	20-30	30	52	200 - 900 Block, HILLER STREET
52	52		,	"EW GATE"	DUE TO HOMEV	"OMITTED	1000-1200 Block, HILLER STREET
52	52	sr.r	79° lp	23-33	.65	23	300 - 600 Block, CHESTERTON AVENUE

LOCATION/SECTION	AVERAGE SPEED 50th	CRITICAL SPEED 85th	10 MPH PACE SPEED	% IN PACE	SKEWNESS INDEX	EXISTING SPEED	RECOMMENDED SPEED
2800-3000 Block, SAN JUAN BLVD.	27	32	22-32	75.00	0.92	25	25
SHOREWAY ROAD, Within City Limits	31	36	25-35	53.06	0.78	35	35
200 - 500 Block, DAVEY GLEN ROAD	25	30	21-31	82.54	1.00	25	25
2100-2500 Block, CARLMONT DRIVE	27	34	23-33	66.67	1.12	25	25
*Continentals to Ralston, LYALL WAY	27	32	23-33	81.44	1.08	25	25
*2200-2600 Block, HASTINGS DRIVE	24	29	19-29	79.27	1.17	25	25

^{*}New streets added per Belmont Police Dept.

TABLE III
FINAL RESULTS OF STUDY

LOCATION/SECTION	EXISTING SPEED	CRITICAL SPEED	RECOMMENDED SPEED
RALSTON AVENUE, WESTBOUND			
Hiller Street to South Road	25	33	25
South Road to Alameda	25	31	30
Alameda to Hallmark Drive	35	38	35
Hallmark Drive to Junction Route 92	35	39	35
RALSTON AVENUE, EASTBOUND			
Junction Route 92 to Hallmark Drive	35	39	. 35
Hallmark Drive to 300' from Pullman Avenue Junction	35	42	35
Alameda to South Road	25	32	30
South Road to Hiller Street	25	32	25
Overpass	35	45	35
MIDDLE ROAD	25	29	25
OLD COUNTY ROAD			
North of Ralston Avenue	25	31	25
South of Ralston Avenue	25	30	25
ALAMEDA			
North of Ralston Avenue	25	25	25
South of Ralston Avenue	25	30	25
HALLMARK DRIVE	25	30	. 25
ELMER STREET	25	27	25
CIPRIANI BOULEVARD	25	28	25
RUTH AVENUE	25	36	25
EL VERANO WAY	25	36	25

LOCATION/SECTION	EXISTING SPEED	CRITICAL SPEED	RECOMMENDED SPEED
SOUTH ROAD	25	27	25
CHULA VISTA DRIVE	25	31	25
NOTRE DAME AVENUE	25	31	25
HILLER STREET	25	30	25
CHESTERTON AVENUE	25	29	25
SAN JUAN BOULEVARD	25	32	25
SHOREWAY ROAD	35	36	35
DAVEY GLEN ROAD	25	30	25
CARLMONT DRIVE	25	34	. 25
LYALL WAY	25	32	25
HASTINGS DRIVE	25	29	25

APPENDIX I

SPOT SPEED ANALYSIS



BELMONT SPOT SPEED ANALYSIS

OCATION 100-500 RALSTON, HILLER TO OLD COUNTY					
PRECTION WEST BOUND	SOTH PERCENTILE SPEED 27				
ATE APRIL 22, 1982	85TH PERCENTILE SPEED 32				
	10 MPH PACE SPEED 21-31				
	PERCENT IN PACE SPEED 73.72				
	RANGE OF SPEEDS 15-40				
AG'	HANGE OF SPEEDS 13-40				
CHAP COME A COMMAND	SKEWNESS INDEX				
BSERVER J. SNOD GRASS N. BRICHACEX					
NUMBER OF	VEHICLES TOTL PER- ACCUM				
D, , 5 10 15 20	25 30 35 40 NO CENT PERCENT				
6					
4	+++++++++++++++++++++++++++++++++++++++				
3					
O X	1 0.64 100.00				
XXX e	3 1.92 98.08				
8	1 0.64 97.44				
6 	0.64 96.80				
6 X X X X X X X X X X X X X X X X X X X	3 1.92 94.88				
4 ××××	5 3.21 91.67				
3 X X X X X X X X X X X X X X X X X X X	3 1.92 87.19				
TORKER HITT	7 4.49 82.70				
O KXXXXXXXXXXXX	11 7.05 75.65				
	8 5.13 70.52				
8 XX X X X X X X X X X X X X X X X X X	7 4.49 66.03				
7 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	19 12.18 53.85				
e XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	17 10.90 42.95				
5 XXXXXXXXX	9 5.77 37.18				
A PONKKKKKKKKKKI I I I I I I I I I I I I I I	13 8.33 28.85				
3 X X X X X X X X X X X X X X X X X X X	11 7.05 ZI.80 8 5.13 16.17				
	5 3.21 13.46				
	8 5.13 8.33				
	3 1.92 6.41				
9 XXX	4 2.56 3.85				
9 	0.64 3.21				

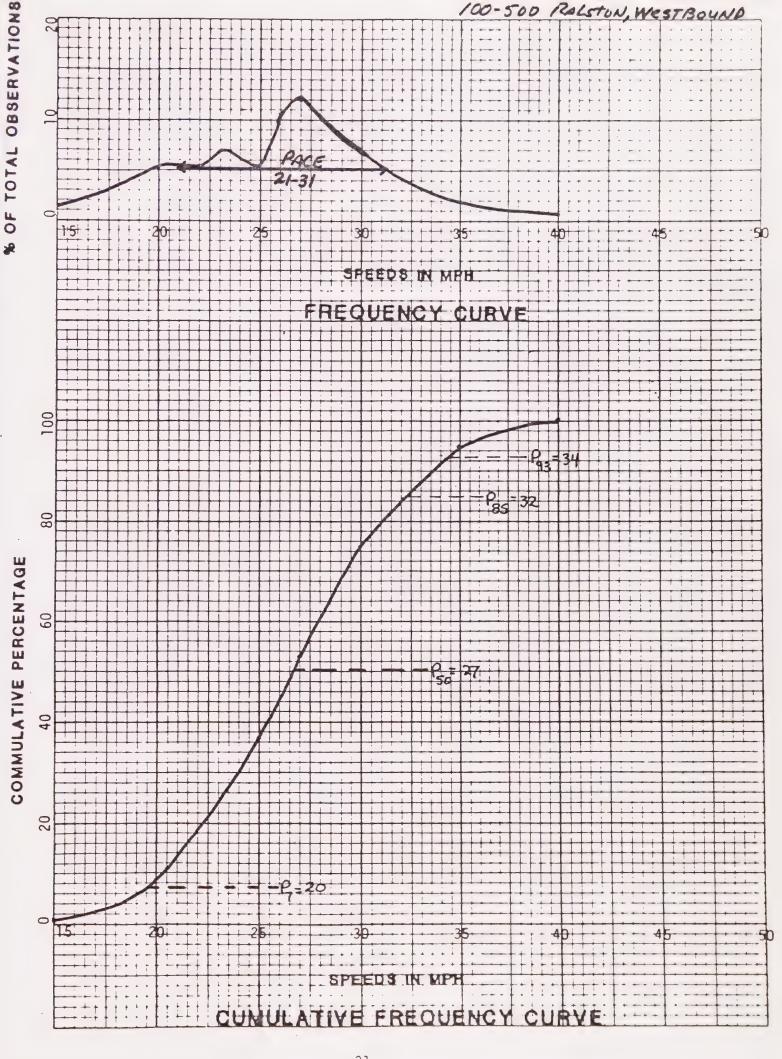
1. ACCIDENT RATE = 11.94 MVM

MARKS

- 2. TRAFFIC VOLUME = 21,100 ADT*
- 3. COMBINED RESIDENTIAL & BUSINESS
- 4. PEDESTRIAN CORSSWALK AT RALSTON

^{*}ADT = AVERAGE DAILY TRAFFIC (1975)







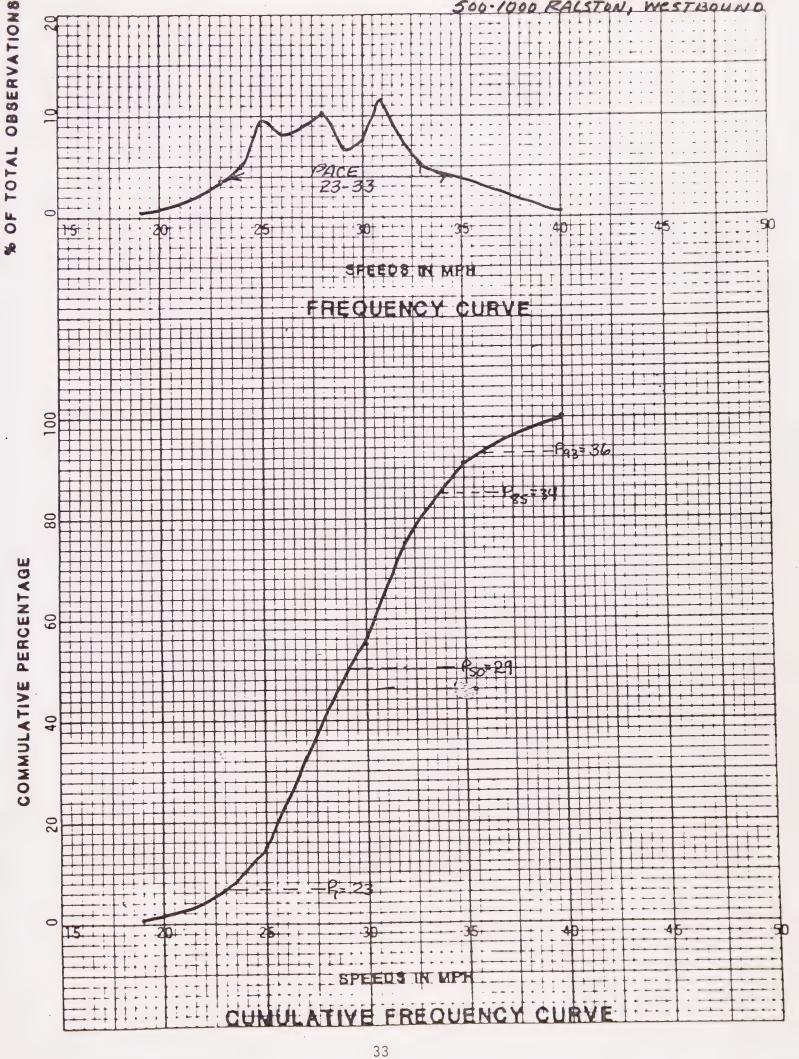
		.m. 4
LOCATION 500-1000 RALSTON,	OLD COUNTY Rd to South	Rd
DIRECTION WESTBOUND	SOTH PERCENTILE SPEED	29
DATE APRIL 22, 1982		
DAY Thursday		
TIME 0950 - 1015	PERCENT IN PACE SPEED	81.22
POSTED SPEED LIMIT_25	RANGE OF SPEEDS	19-40
	SKEWNESS INDEX	
STREET WIDTH	ANALYSIS BY ALZ	Quella CV
OBSERVER J. SNOOGRASS/ N. BRUHACEK	ANALYSIS BY /V. DE	CICNALES
NUMBER OF	VEHICLES	TOTL PER- ACCUM
5 10 15 2		40 NO CENT PERCENT
49		
48		
46	in and a second like the little and	
45		
43		
43		
42		
41		1 251 10000
40 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 0.51 100.00
		1 0.51 99.49
39 38 37	┇ ┼╏┩╫╒╫╫╒╫╫╒╫╫╒╫┼┼┼┼┼┼┼┼┼	5 2.54 95.93
37		6 3.05 92.88
36		3 1.52 91.36
35 XX 1111111111111111111111111111111111		8 4.06 87.30
34 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		VO 5.08 12.22
33 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		15 7.61 74.61
32 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		23 11.67 62.94
	i a a a a a a a a a a a a a a a a a a a	15 7.61 55.33
30 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		13 6.59 48.74
29 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		20 10.15 38.59
5° 000000000000000000000000000000000000		13 6.59 32.00
26		16 8.12 23.88
25 XXXXXXXXXXXXXXX		18 9.14 14.74
24 2222222		10 5.08 9.66
23 XXXXXX		7 3.55 6.11
22 XXXXXXXIIIIIIIIIIIIIIIIIIIIIIIIIIIII		7 3.53 2.56 3 1.52 1.04
27		3 1.52 1.04
20		1 1 2 1 0 0 2
19	┇┆┆┆┆╏┆┆╏╏┆	1 051 053
18		+++
	┇┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋	
16	╂┼┼┼┼╂┼┼┼╂┼┼┼┼┼	
15		197
DEMARKS		///

- 1. ACCIDENT RATE = 17.99 MVM
- 2. ADT = 19,600

REMARKS

3. BUSINESS DISTRICT



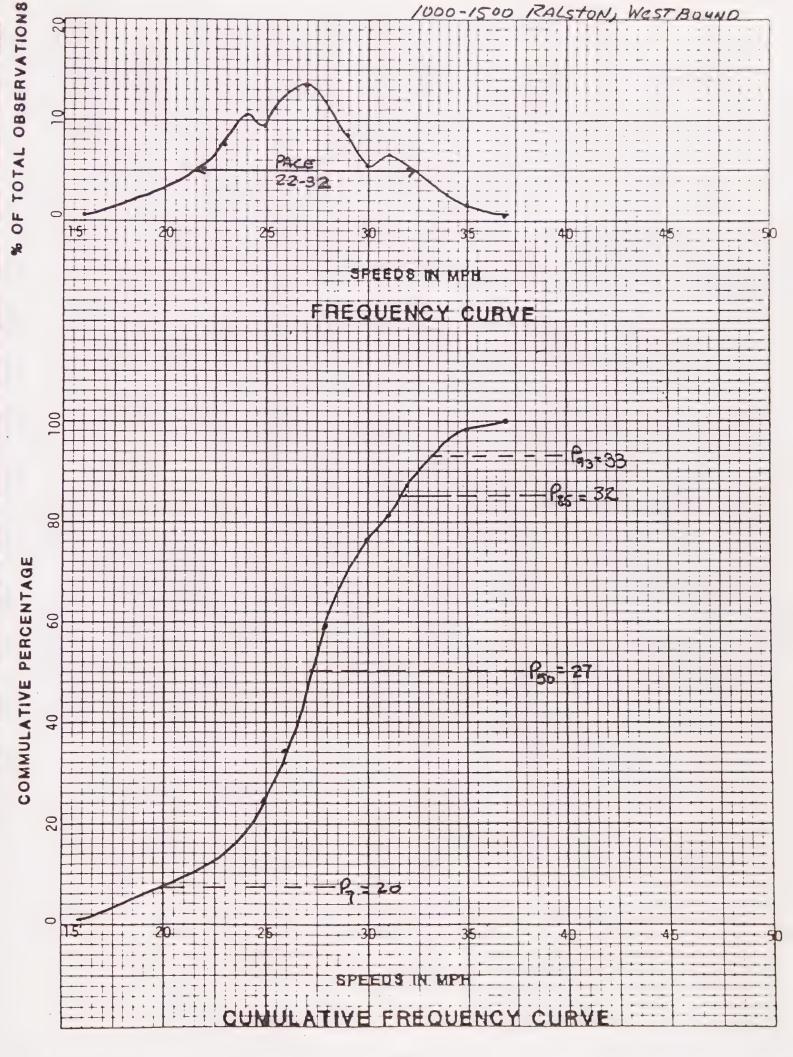




LOCATION 1000-1500 RALSTON.	SOUTH Rd. to Notre DAME 1	Arenus
DIRECTION WESTBOUND	50TH PERCENTILE SPEED	27
DATE APRIL 22, 1982		
DAY Thursday		
TIME 1015-1090		
POSTED SPEED LIMIT25		
STREET WIDTH 38'	SKEWNESS INDEXO	.92
OBSERVER J. SNOOGRASS / N. BRICHACEX	ANALYSIS BY N. BRICH	ACEK.
		TOTL PER- ACCUM
PEED NUMBER OF	0 25 30 35 4	ONO CENT PERCENT
49 48		
47		
46		
45 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
43		
42		
4		
40		
39		
37		1 0.57 100.00
36		3 1.70 98.30
35 34 33 33 33		5 2.84 95.46
39 DOOD		5 2.84 92.62
33 QQQQQXXXXIIIIIII		9 5.11 87.51
32 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		11 6.25 81.26
30 VVVVXXXXX		9 5.11 76.15
30 00000000000000000000000000000000000		15 8.52 67.63
30 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		15 8.52 59.11
57 KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK		24 13.64 45.47
26 KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	i de de la comunicación de la co	20 11.36 34.11
25 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		17 9.66 24.45
24 RYRYKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK		19 10.80 13.65
23 KKKKKKKKKKKKKKK		13 7.39 6.26
22 XXXXXX		6 341 2.85
25 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		3 1.70 1.15
20		
18		
		1 0.57 0.58
16 ×		0.01

- 1. ACCIDENT RATE 2.78 MVM
- 2. ADT = 20,900
- 3. RESIDENTIAL WITH BUS STOPS







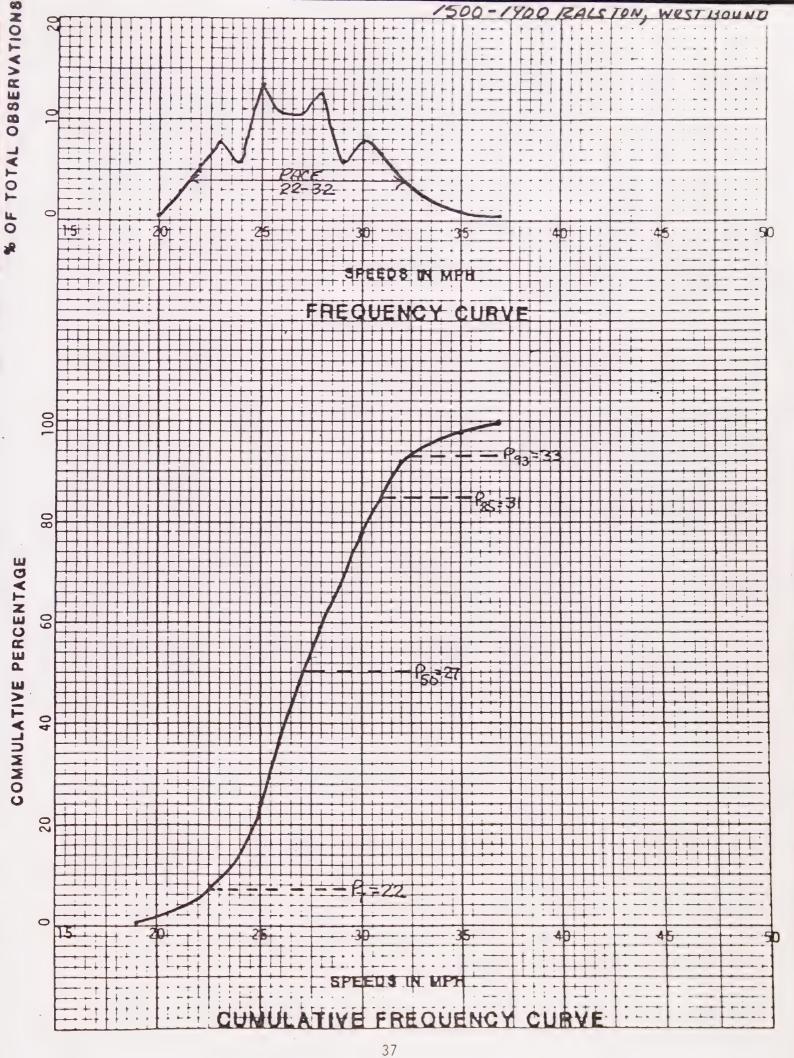
LOCATION 1500-1900 RALSTON.	NOTRE DAME AVE to ALAMEDA DE LAS PULBAS
DIRECTION WESTBOUND	SOTH PERCENTILE SPEED 27
DATE APRIL 22, 1987	85TH PERCENTILE SPEED 3/
, ,	10 MPH PACE SPEED 22-32
	PERCENT IN PACE SPEED 89.76
The state of the s	
POSTED SPEED LIMIT	RANGE OF SPEEDS 19-37
STREET WIDTH 38'	SKEWNESS INDEX
OBSERVER J. SNOOGYASS / N. BRICHACEK	
	VEHICLES TOTL PER- ACCUM
	20 25 30 35 40 NO CENT PERCEN
49	
46	
45	
44	╶┠╎┼┼┼╂┼┼┼┼┼┼┼┼╂┼┼┼┼
43	
42	
40	
39	
38	1 0.49 100.00
37 X 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 10.47 100.08
3 5 XXXX	4 1.95 98.05
34 888	3 1.46 96.59
33 XXX	4 1.95 94.64
32 XXXX	5 244 92.20
31 XXXXXXXXXXXXXX	14 6.83 95.37
30 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	16 7.80 77.57
29 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	12 5.85 71.72 1XX XX XX 2 26 12.69 59.04
28 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	XXX
S & KINKK KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
25 NXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	12 5.85 18.07
53 	16 7.80 10.27
22 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	5.37 4.90
24 X X X X X X X X X X X X X X X X X X X	6 2.93 1.97
20 X	1 0.49 1.48
27	2 0.98 0.50
18	

- 1. ACCIDENT RATE = 5.11 MVM
- 2. ADT = 20,900

REMARKS

3. RESIDENTIAL TO BUSINESS WITH BARRETT SCHOOL IN BETWEEN



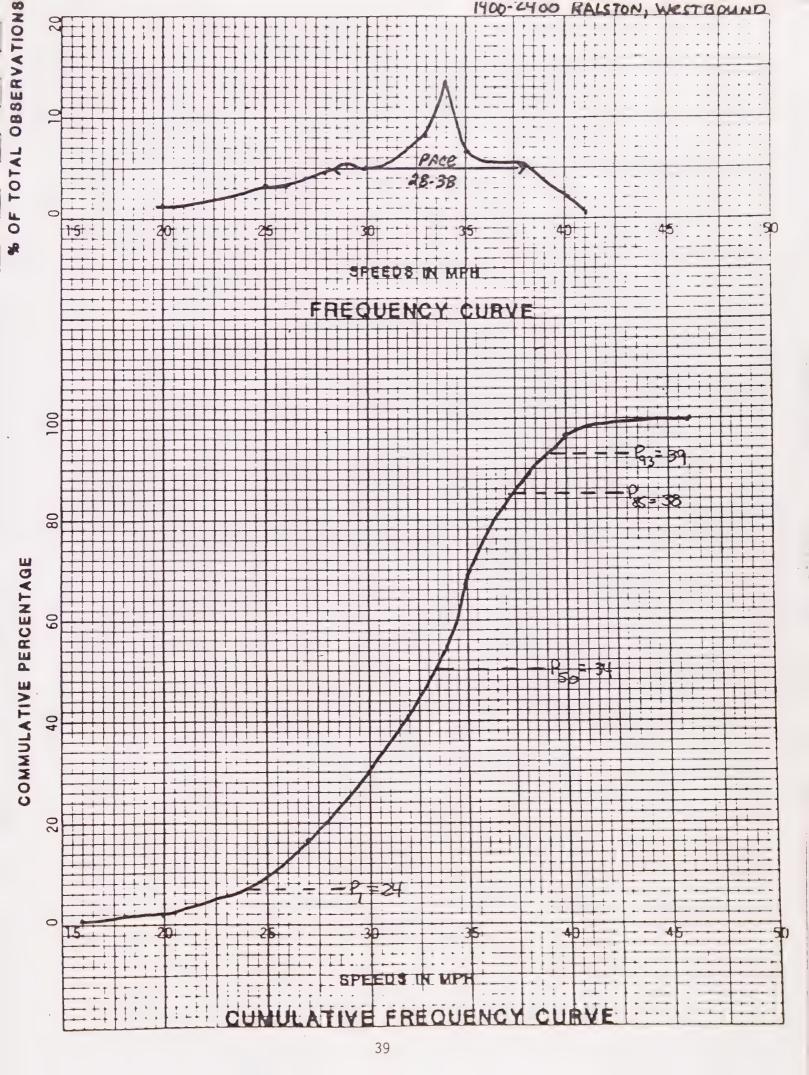




LOCATION 1900-2400 RALSTON, ALAMEDA to C	IPRIANI BLYD)		
	ITILE SPEED_			
DATE				
DAY MONDAY TO MPH PACE			,	
TIME 1020-1050 PERCENT IN				
	PEEDS	15-46		
STREET WIDTH 48' SKEWNESS I	INDEX	0.67		
OBSERVER J. SNADARASS N. BRIGHACEK ANALYSIS E	N. BEIS	HACEK		
PEED NUMBER OF VEHICLES				ACCUM
5 10 15 20 25	30 35	40 NO	CENT	PERCENT
49 48	╁╂┼┽┼┼╂┼┼	++++		
46 X		111/	0.45	100.00
45		+++-+		
43				
42			1	
41 X			0.45	99.55
40 XXXX			2.27	97.28
39 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			3.64	9364
38 XXXXXXXXXXXX	╽╏╏╏╏╏		5.45 5.45	82.74
37 XX	╎╏┆╎╏╏ ┯╸		6.36	76.38
35 XXXXXXXXXXXXXXX			282	69.56
34			13.64	55.92
33 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			2.18	47.82
32 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			6.36	41.46
31 XXXXXXXXXXXXXX			6.36	35.10
30 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			5.00	30.10
29 XXXXXXXXXXXX		1/2	5.45	24.65
28 XXXXXXX		8	3.64	21.01
28 XXXXXXXX 27 XXXXXXXX		9	4.09	16.92
26 KKKKKKKKKK		19	4.09	12.83
25 X X X X X X X X X X X X X X X X X X X			3-18	9.65
24 XXXXXXXXXX			4.54	5.11
23 X 22 X X			0.45	4.66
22 XX			0.91	3.75
21 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			0.45	3.30
25 X X X X X X X X X X X X X X X X X X X		1 3	1.36	1.94
		+++		-
18		+++		-
17 X 16 X 17 X 17 X 17 X 17 X 17 X 17 X		+++/-	045	1.49
16	┾╂┼┼┼┼╂┼┼		0.45	1.04
15 0			0.45	0.59
REMARKS		220		

- 1. ACCIDENT RATE = 3.17 MVM
- 2. ADT = 19,400
- 3. UPGRADE WITH "S" CURVE TO RIGHT



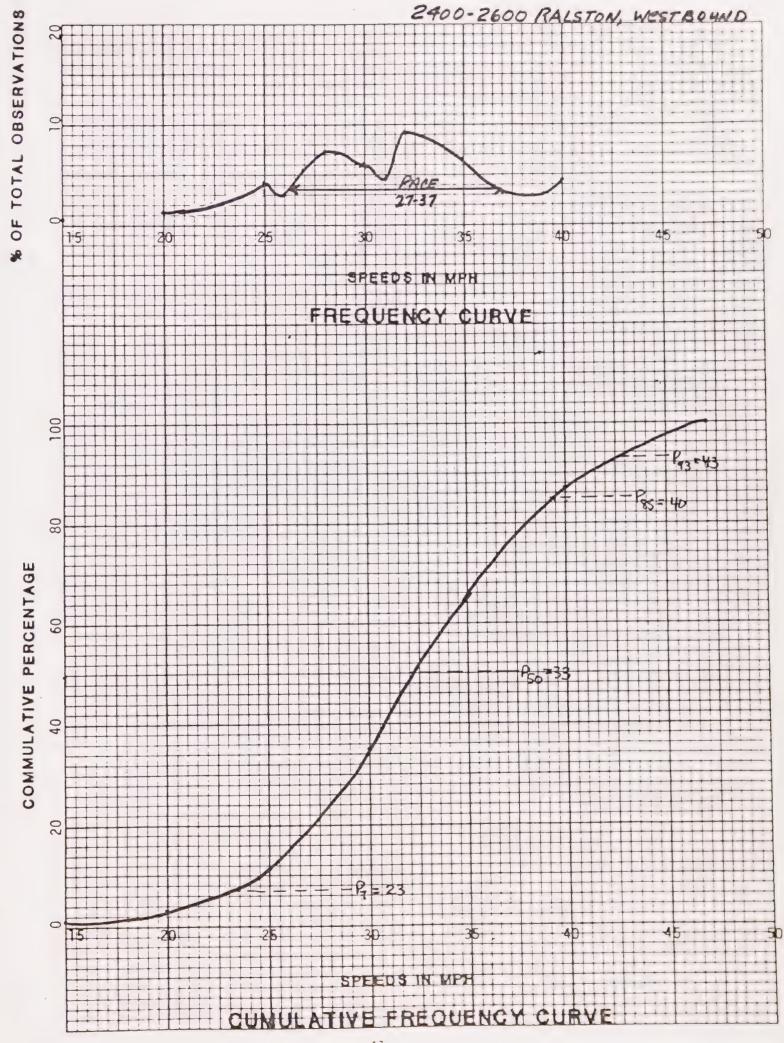




2000 2100 ROLLTON	Commit Blad to Davis Drive
LOCATION 2400-2600 RALSTON,	
DIRECTION WESTBOUND	50TH PERCENTILE SPEED 33
DATE	85TH PERCENTILE SPEED 40
DAY Thursday	10 MPH PACE SPEED 27-37
1/05-1/20	PERCENT IN PACE SPEED 6446
TIME 1103 - 1130	PERCENT IN PACE SPEED
	RANGE OF SPEEDS 15-47
STREET WIDTH 48'	SKEWNESS INDEX 1.00
	ANALYSIS BY N. BRICHACEK
	TOTAL DED. ACCUM
OLLIW	VEHICLES 30 35 40 NO CENT PERCEN
40	2 1.20 100.00
47 46 45 44 43 42 42 41	1 0.60 99.40
46	2 1.20 98.20
45	2 1.20 97.00
94 (84)	1 0.60 96.40
43 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5: 3.01, 93.39
AL QUIT	2 1.20 92.19
41 XX 40 XXXXXXX 39 XXXX	F 4.82 87.37
39 XXXX	5 3.01 84.36
38 XXXX	5 7.01 T8.94
37 XXXX	1/ 6.63 72.3/
37 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	VI 6.63 65.68
35 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	10 6.02 59.66
34 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8 482 54.84
33 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	15 9.04 45.80
32 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8 4.12 40.91
	10 6.02 34.96
30 000000000000000000000000000000000000	8 4.82 30.14
29 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	12 7.23 22.91
27 X X X X X X X X X X X X X X X X X X X	9 5.42 17.49
27 X X X X X X X X X X X X X X X X X X X	5 3.01 14.48
25 XXXXXXX	7 4.22 10.26
25 XXXXXX	111111111111111111111111111111111111111
23	2 1.20 4.84
22 XX	1 0.60 4.24
21 8	2 1.20 3.04
22 XX 21 X 20 XX 19 X 18 X	1 0.60 2.44
19	1 0.60 1.84
18 X	
16 15 X	1 0.60 1.24
	166
REMARKS	

- 1. ACCIDENT RATE = 3.28 MVM
- 2. ADT = 19,000
- 3. ENTRANCE TO BUSINESS COMPLEX AT DAVIS DRIVE
- 4. UPGRADE







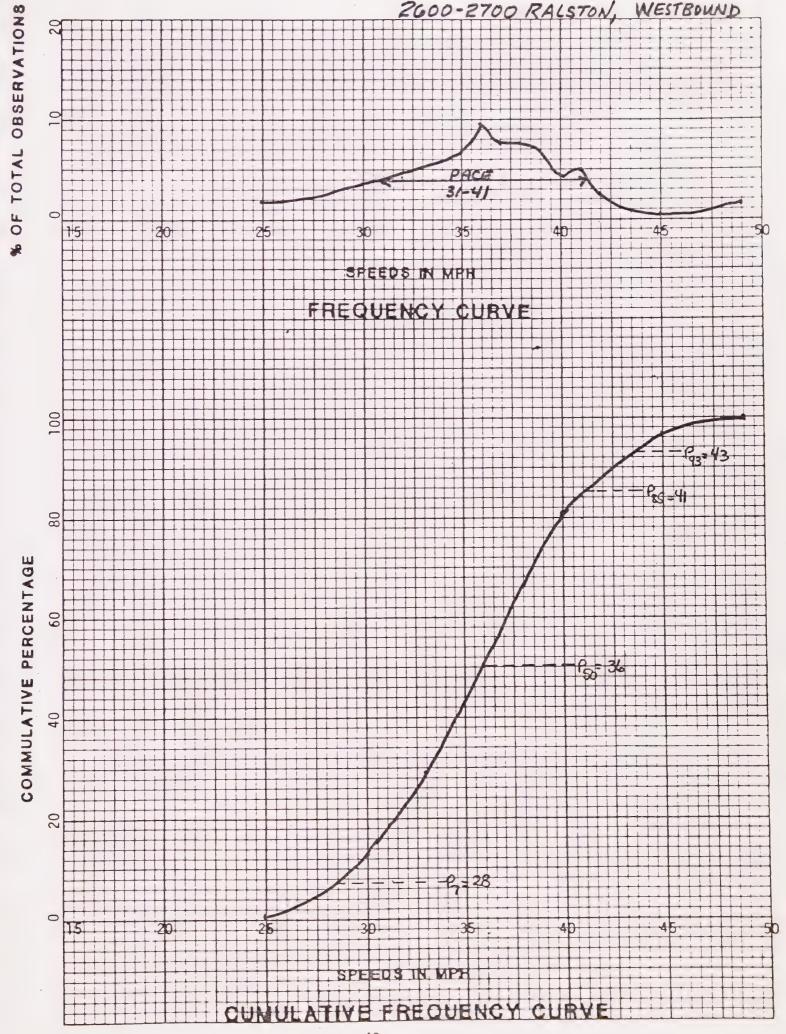
				21010				
LOCATION 2600-2700 RALSTON,	DAY	is Dr to	HALLM	ARK Dru	E			-
DIRECTION WESTBOUND	50	TH PER	CENTILE	SPEED_		36		
DATE APRIL 22, 1982	8.5	TH PERC	ENTILE	SPEED_		41		
DAY THURSDAY	10	MPH PA	CE SPI	EED		31-4	4	
TIME #35-1200	PE	ERCENT I	N- PACE	SPEED_		73.5	2	
POSTED SPEED LIMIT 35	R	ANGE OF	SPEEDS	i	é	5-4	9	
STREET WIDTH 48'								
OBSERVER J. SNOGERASS / N. BRICHALEY								
		EHICLES	30	35	40			ACCUM PERCENI
49 XXXX		25					158	100.00
48 47 XXXX			++++			4	1.58	98.42
46 XXXIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			++++				1.19	97.23
45 X						1	0.40	96.83
44 XXXXXXX						7	2.77	94.06
44 XXXXXX 43 XXX						3	1.19	92.87
42 XXXXXX						6.	2.37	90.50
41 KXXXXXXXXXXXXX						13	5.14	85.36
40 KKKKKKKKKKKKI I I I I I I I I			++++			11/	4.35	81.01
39 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	+++					18	7.11	73.90
38 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	+		-+	╎╎╎╏ ┼╸	+-+-	19	751	58.88
37 KKKKKKKKKKKKKKKKKKK	200	XXX	++++	╎ ┼┼╂┼╸	 	25	9.88	49.00
3 6 KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	444		+++	++++	+	17	6.72	42.28
35 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	++-		+++			16	6.32	35.96
34 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	++-		+++			17	6.72	29.24
22 00000000000000000000000000000000000			+++	++++		15	5.93	23.31
31 88 88 88 88 88 88 88 88 88 88 88 88 88			+++	++++		116	6.32	16.99
						9	3.56	
30 XXXXXXXXX 29 XXXXXXXXX						10	3.95	
53 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				 	+++	8	3.16	
45° 10 10 10 10 10 10 10 10 10 10 10 10 10			++++	++++		4	1.58	
26 222							1.19	3.55
25 XX XXX						15	1198	1.57
24								
23								
22								
28 X X X X X X X X X X X X X X X X X X X								
20								
8						-	-	-
					111	1	-	-
	9 1	, , , , , ,						

- 1. ACCIDENT RATE = 2.96 MVM
- 2. ADT = 19,000

REMARKS

3. RESIDENTIAL WITH RALSTON SCHOOL IN BETWEEN



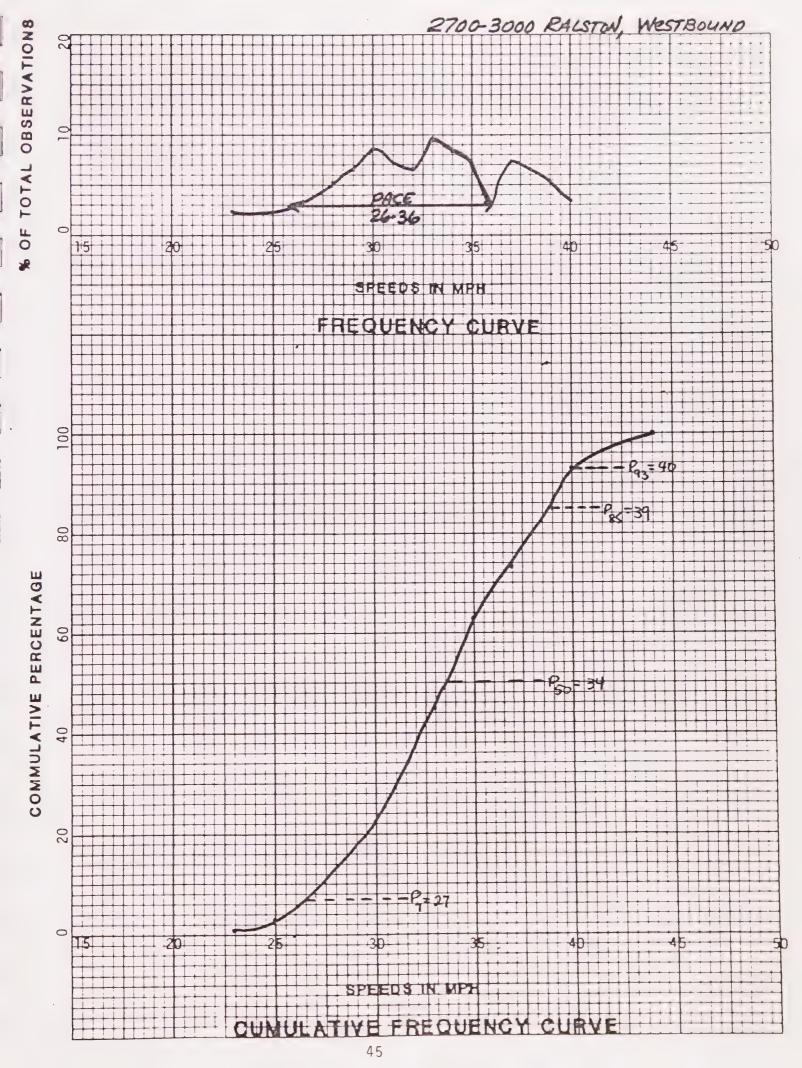




LOCATION 2700-3000 RALSTON	HALLMARK Dr. to Christian Drive.
DIRECTION WESTBOUND	SOTH PERCENTILE SPEED 34
DATE APRIL 22, 1982	85TH PERCENTILE SPEED 39
DATE PRICES HAS	10 MPH PACE SPEED 24-21
DAY_Thursday	10 MPH PACE SPEED 26-36
TIME 1405-1430	PERCENT IN PACE SPEED 69.12
POSTED SPEED LIMIT 35	RANGE OF SPEEDS 23-94
40'	SKEWNESS INDEX 0.92
STREET WIDTH	SKEWNESS INUEX
OBSERVER Swodgrass N. BRICHACEK_	ANALYSIS BY N. BRICHACEK
NUMBER OF	VEHICLES TOTH PER ACCUM
SEEDO 5 10 15 20	O 25 30 35 40 NO CENT PERCEN
49	
48 47	
46	
45	1 0.74 100.00
44 × 11 11 11 11 11 11 11 11 11 11 11 11 1	
43 42 XX	2 1.47 98.53
41 XX	2 1.47 97.06 5 3.68 93.38
41 XX 40 XXXX	8 5.88 87.50
39 XXXXXXX 38 XXXXXXX	9 662 8088
37 RXXXXXXX	10 7.35 73.53 4 2.94 70.59
37 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	10 7.35 63.24
35 XXXXXXXXXX	12 8.82 54.42
34 KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	13 9.56 44.86
33 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9 6.62 38.24
32 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	10 7.35 30.89
30 88888888888	12 8.82 22.07
29 KKKIXIXIXIXIXIXI	9 6.62 15.45
28 XXXX	7 5.15 7.36
27 XXXXXX	4 294 4.42
28 X X X X X X X X X X X X X X X X X X X	2 1.47 295
25 XX	
24	3 2.21 0.74
23 XXX	
22	
2	
20	
19	
18	
17	
15	
REMARKS	136
REMARKS	

- 1. ACCIDENT RATE = 1.32 MVM
- 2. ADT = 10,700
- 3. DOWNGRADE TO 280





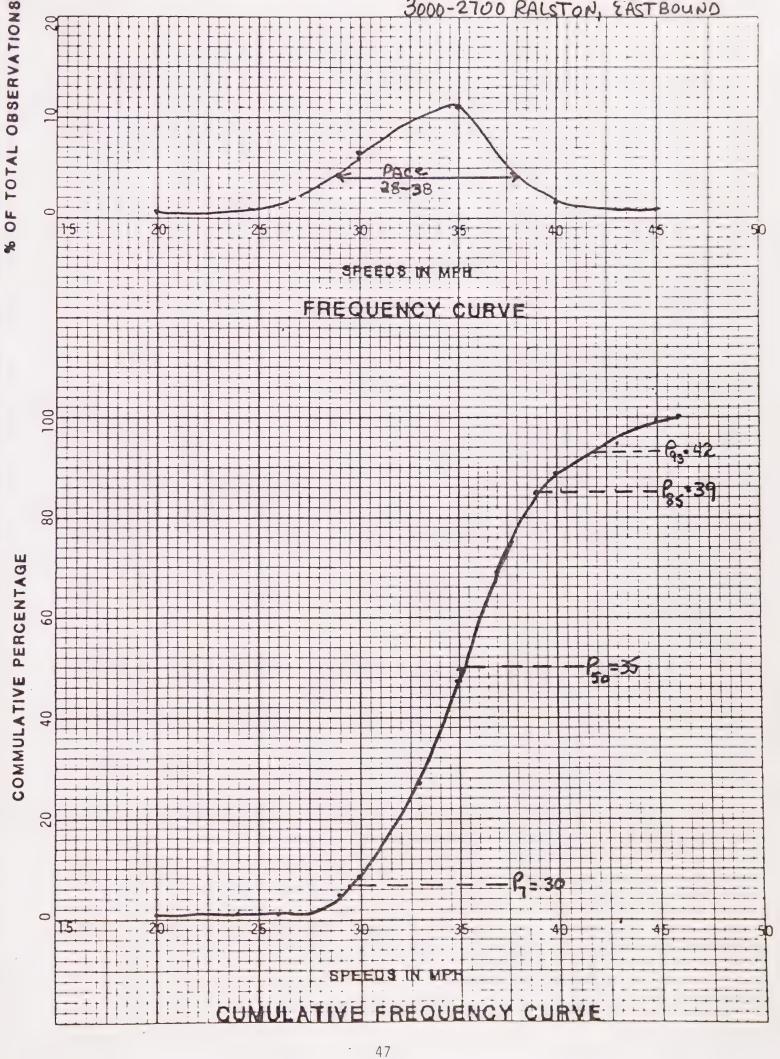


LOCATION 3000-2700 RALSTON.	CHRISTIAN Dr to HALLMARK	Dr .
DIRECTION EASTBOUND	50TH PERCENTILE SPEED	35
DATE APRIL 22, 1982	85TH PERCENTILE SPEED	39
DAY Thursday	10 MPH PACE SPEED	28-38
VA I THURSDAY	SERVENT IN PACE SPEED	8157
TIME 1435-15.00	PERCENT IN PACE SPEEU	20 111
POSTED SPEED LIMIT 35	RANGE OF SPEEDS	20-76
STREET WIDTH 48'	SKEWNESS INDEX	1.17
OBSERVER J. Swodgrass / A BRICHACEK	ANALYSIS BY N. BRI	HACEK
		TOTL PER- ACCUM
	VEHICLES 20 25 30 35	40 NO CENT PERCENT
49		
48		
47 46 X		2 0.92 99.08
45 XX		2 0.92 99.08
45 XX 44 XXXX 43 XXXXXX 42 XXX 41 XXXXX	- ┇┆┆┆┆ ╃┼┼╂┼┼┼┼┼┼┼┼┼	7 3-23 94.01
43 XXXXXX	┸	3 1.38 92.63
42 XXX		5 2.30 90.33
41 XXXXX		3 1.38 88.95
40		8 369 85.26
39 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		18 8.29 76.97
3 8 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		IB 8.29 68.68
3		22 1014 5854
3 O O O O O O O O O O O O O O O O O O O		24 11.06 47.48
34 QQQQQQQXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	32 14.75 32.73 11 5.07 2766
33 KXXXXXXXXXX		7.83 19.83
32 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		11 5.07 14.76
31 XXXXXXXXXXX		14 6.45 8.31
30 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		6 2.76 5.55
29 XXXXXX		4 184 3.71
28 XXX		3 1.38 2.33
30 X X X X X X X X X X X X X X X X X X X		2 0.92 1.41
25 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
25		046 0.95
24		+
23		
25 24 X 23 22 21		1 0.46 0.49
20 X		1 0.46 0.49
19	╎╏╎╎╎╏╏╏╏╏╏╏ ┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼	
18	╎╏╎╎╏ ┼┼┼┼┼┼┼┼┼┼┼┼┼	
	+++++++++++++++	
16		

- 1. ACCIDENT RATE = SEE WESTBCUND
- 2. ADT = " "
- 3. UPGRADE FROM 280

REMARKS







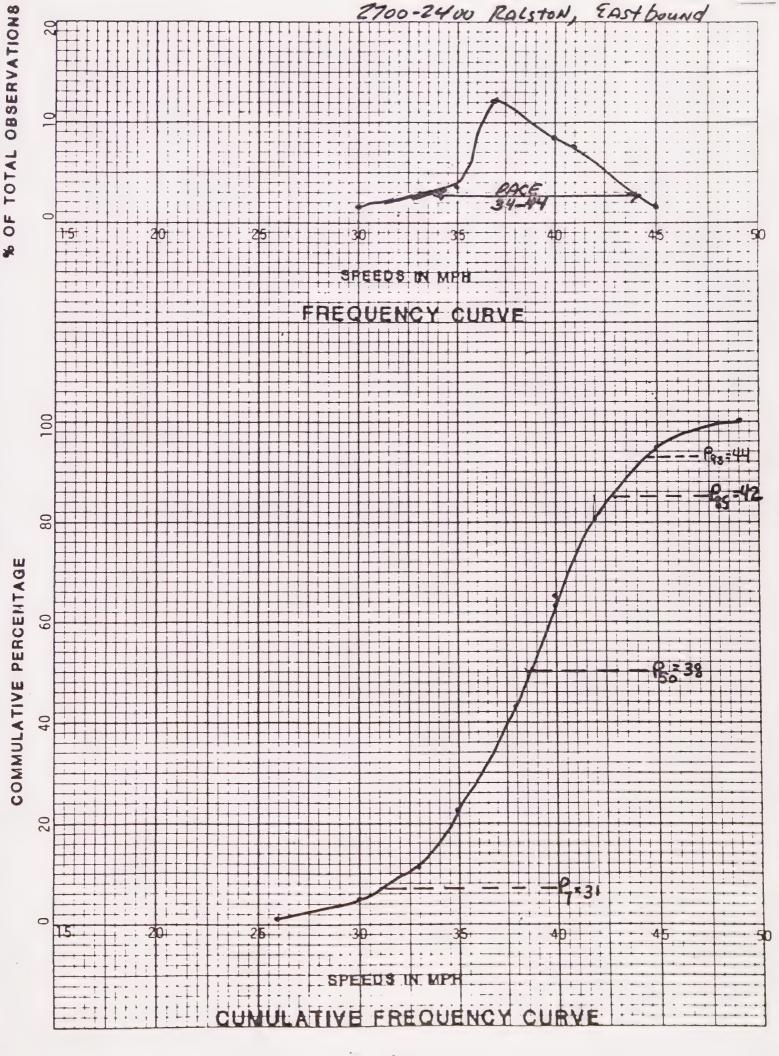
BEEMON ST				
LOCATION 2700-2400 RALSTON.	HALLMARK I	or to Cipriani	Blvd.	
DIRECTION EASTBOUND				
DATE APRIL 23, 1982	85TH PERC	ENTILE SPEED	42	
DAY FRIDAY	IO MPH PA	CE SPEED	34-44	ţ.
TIME 0930-1000	PERCENT II	N PACE SPEED	76.74	
POSTED SPEED LIMIT 35				
STREET WIDTH 48'				
OBSERVER J. SNOOD TAS I N BRICHACEK	ANALYSIS	BY N. BRICH	ACEK	
	VEHICLES			ER- ACCUM
5 10 15 2	0 25	30 35		ENT PERCEN
49 88 11 11 11 11 11 11 11 11 11 11 11 11	1 + + + + + + + + + + + + + + + + + + +		10.	16 100.00
48 X				16 98.26
46 X		╽╎╏╎╎╎╏ ┼┼		58 97.68 74 95.94
45 KKKT	$\blacksquare + + + + + + +$			49 92.45
44 XXXXXX 43 XXXXX	╂┼┼┼┼┼┼┼	++++++		49 88.96
43 888888 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1++++			07 84.89
42 X X X X X X X X X X X X X X X X X X X	++++++++++++++++++++++++++++++++++++			65 80.24
* DOCCODO	4+++++			56 72.68
40 ************************************				72 63.96
39 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				14 55.82
37 REPORTER XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				.21 43.61
3 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	X		The second secon	21 31.40
35 XXXXXXXXXX				.49 22.10
34 XXXXXX				40 15.70
33 XXXXXXXXXX	╂┼┼┼┼┼┼	+++++++++		65 11.05
32 XXXXXXXX	++++++++++++++++++++++++++++++++++++	┼┼╂┼┼┼┼╂╂	4/2	33 8.72
	 		the latest state of the la	33 6.39
31 XXXX 30 XXXX 29 XXX				74 4.65
29 XXX	++++++++++++++++++++++++++++++++++++			
28 X X X X X	╂┼┼┼┼╂┼			58 4.07
				.58 1.16
26 🔀				
25 24 23 22 21				
29				
23				
21				
20				
19			+++	
			+++-	
				1

- 1. ACCIDENT RATE = SEE WESTBOUND
- 2. ADT = " "

REMARKS

3. DOWNGRADE WITH RALSTON SCHOOL ENTRANCE AT RIGHT



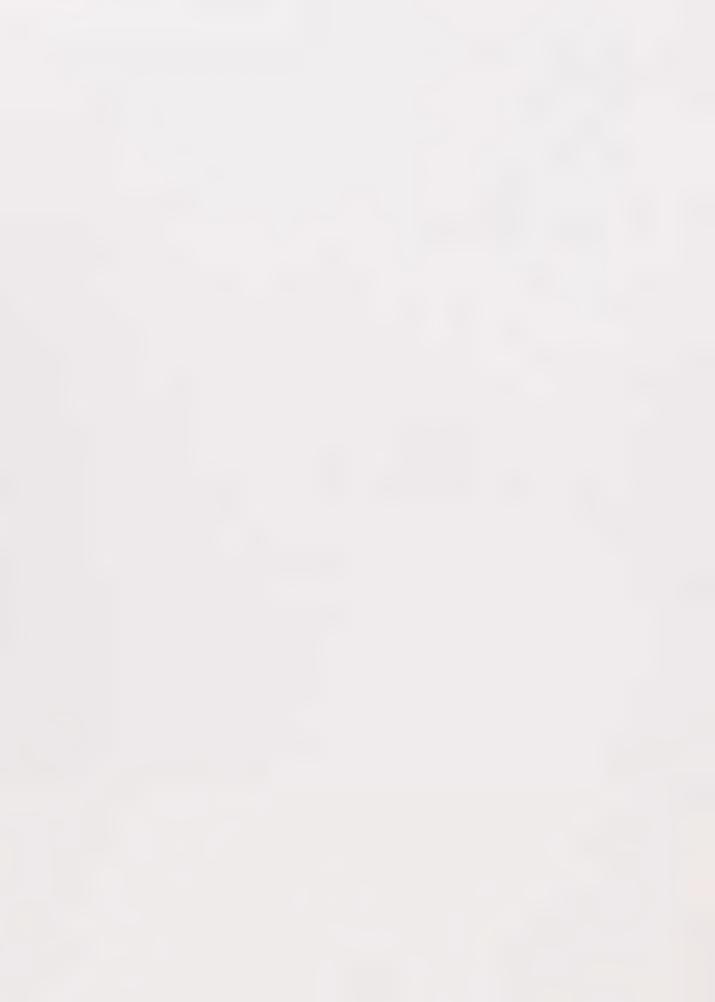


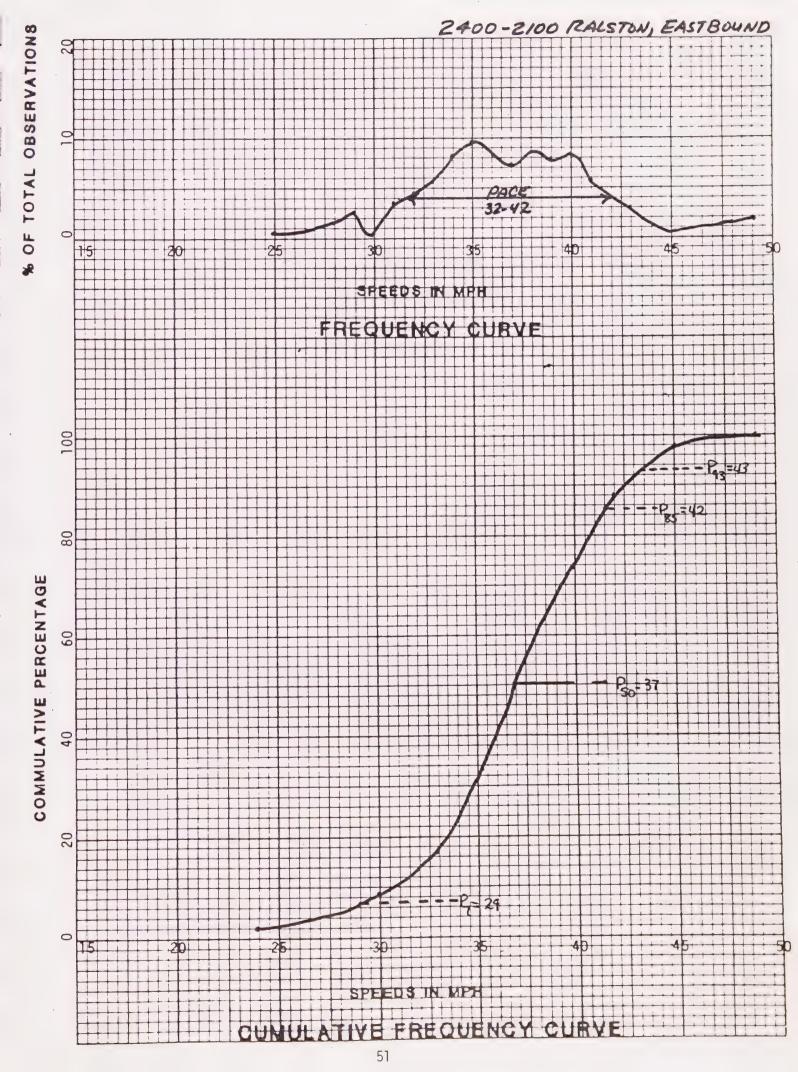
	1	0				
LOCATION 2400-2100 RALSTON, CIP	RIANL BLVD	to JULL	MAN			
DIRECTION EAST BOUND	50TH PERC	ENTILE SP	EED	31		
DATE MAV 3. 1982	85TH PERC	ENTILE SP	EED	42		
D A Y MONDAY	IO MPH PA	CE SPEEL	0	32 -	42	
D A YMONDAY			~==	76.2	4	
TIME 1130-1200	PERCENT	N PACE SI	-EEU	011	40	
POSTED SPEED LIMIT 35	RANGE OF	SPEEDS_		24-4	49	
STREET WINTH 48'	SKEWNESS	INDEX_		0.80	0	
OBSERVER SNOOgrass N. BRICHACEK	ANALYSIS	BY	N. BRI	CHACEK		
				Ton	PER-	ACCUM
DEED	VEHICLES 25	30	35	40 NQ	CENT	PERCENT
49 ************************************				5	1.98	100.00
		++++	++++			
48 47 47	++++	+++			0.79	99.21
46 XX 45 XX 44 XX XX	++++				0.79	98.42
45 XX XXX XX X			1111	6	2.38	96.04
43			+++	10	3.57	88.50
42			-+	15	5.95	82.55
41 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			+++	121	8.33	
40 KKKKKKKKKKKKKKKKKK	X		+++	20	7.94	66-28
39 38 37 36		-1-1-1-1		22	8.73	57.55
3 B XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				119	7.54	50.01
37 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X			21	8.33	41.68
3.6. 0.000000000000000000000000000000000	XXXXX			25	9.92	23.43
33 00000000000000000000000000000000000	X			21	5.56	17.87
35 X X X X X X X X X X X X X X X X X X X				112	4.76	13.11
32 XXXXXXXXX			┝╌╂╌┼╌┼	1 9	3.57	9.54
31 XXXXXXX	╏┤╏ ┼┼┼┼			12	0.79	8.75
30 XX				117	2.78	5.97
29 XXXXXX 28 XXXX 27 X 26 XX	╏╎ ┾┼┼╋╋	++++		14	1.59	4.38
28 XXX	╏╎┤ ┼┼┼┼┼				0.40	3.98
27				2	0.79	3.19
26 KX				12	10.79	2.40
25 XX 24 X 23 22 21					0.40	2.00
24 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					-	
23					-	-
22			++++	+++-	-	-
20			++++		-	-
20		++++	++++	+++-	-	-
19				+++		1
		+++++	++++	+++		
					_	

- 1. ACCIDENT RATE = SEE WESTBOUND
- 2. ADT = " "
- 3. DOWNGRADE

REMARKS

261



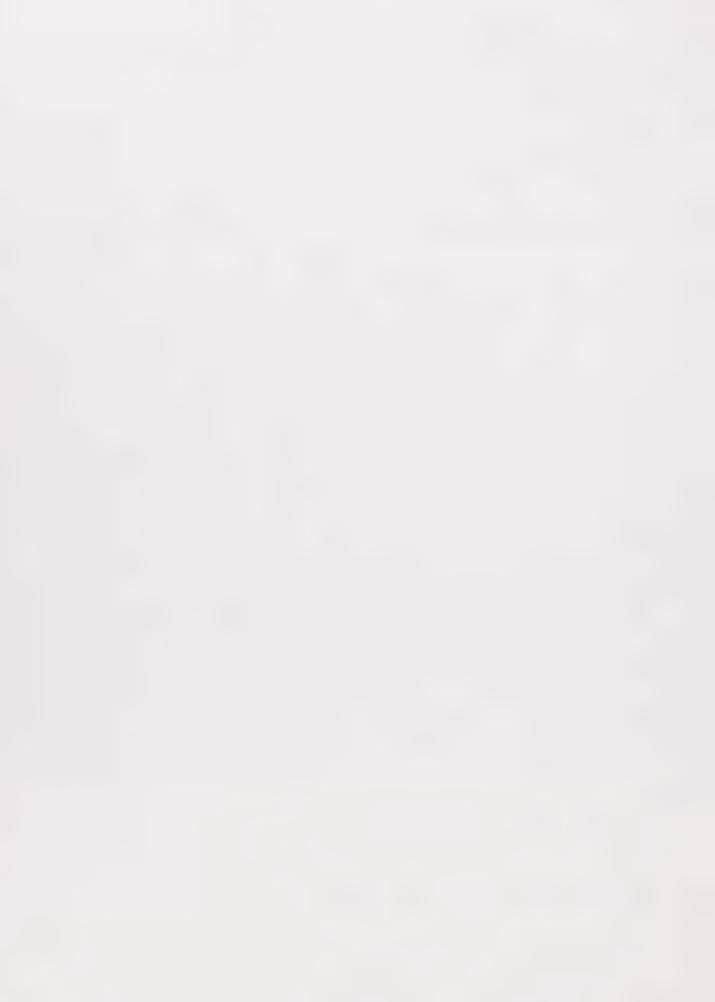


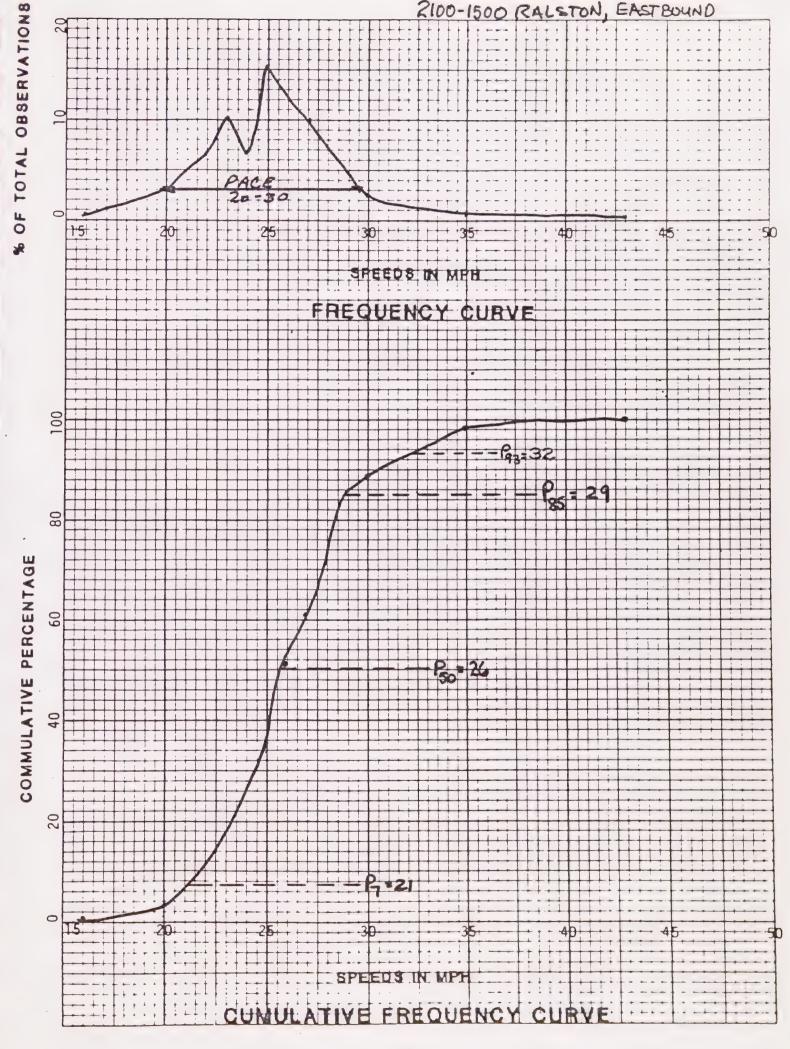
LOCATION 2100-1500 RALSTON, A	LAMEDA to NOTRE DAME AVE
DIRECTION EAST BOUND	SOTH PERCENTILE SPEED
DATE APRIL 23, 1982	85TH PERCENTILE SPEED 29
	10 MPH PACE SPEED 20-30
	PERCENT IN PACE SPEED 87.74
POSTED SPEED LIMIT	RANGE OF SPEEDS 16.43
STREET WIDTH 38	SKEWNESS INDEX 1.09
OBSERVER 1. Snodgrass N. BRICHACEK	ANALYSIS BY N. BRICHACEK
NUMBER OF	Tom LOCALIACCINA
	20 25 30 35 40 NO CENT PERCENT
49	
48	
47	
46	
45 44 43 42 41	0.38 100.00
43 X	
43 X	1 0.38 99.62
41	┩┦┩┩┩┩┩┩┩┩┩
40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
39 38 37 36 35 XX 34 XXXX	
38 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
36	2 0.77 98.85
35 XX	2 0.77 98.85 5 1.92 96.93
35 XX 34 XXXXX	2 0.77 96.16
33 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 2.30 93.86
32 XXXXX	6 2.30 91.56
31	7 2.68 88.88
30 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	11 4.21 84.67
29 XXXXXXXXX	34 13.03 71.64
28 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	26 10.00 61.64
27 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
26 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
25 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	18 690 29.07
24	27 10-34 18.73
23 000000000000000000000000000000000000	17 6.SI 12.22
44 BODGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	14 5.36 6.86
EL DOCCOCCO MANAGEMENT	8 3.06 3.80
20 XXXXXXX	4 1.53 2.27
19 XXXX 18 XXXX	4 1.53 0.74
18 XXX	
	1 0.38 0.36

- 1. ACCIDENT RATE = SEE WESTBOUND
- 2. ADT = " "

REMARKS

3. BUSINESS-RESIDENTIAL WITH SCHOOL AT LEFT







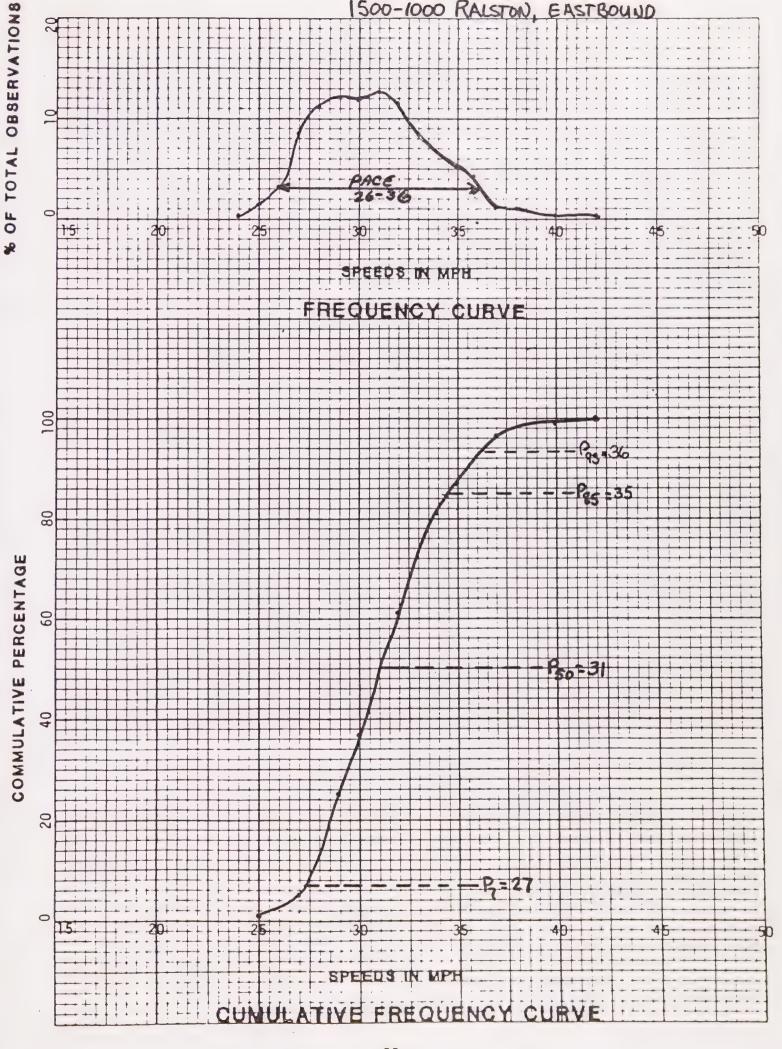
OCATION 1500-1000 RALSTON, 1	NOTRE DAME AVE to South F	59
DIRECTION EAST BOUND	SOTH PERCENTILE SPEED	31
ATE APRIL 23, 1982	85TH PERCENTILE SPEED	35
A Y FRIDAY		26-36
	PERCENT IN PACE SPEED	74.07
OSTED SPEED LIMIT 25	RANGE OF SPEEDS	24-42
STORET WINTH 38'	SKEWNESS INDEX	1.11
OBSERVER J. Swodgrass N. BRICHACOK	ANALYSIS BY N. BRICHA	cek
		TOTL PER- ACCUM
	VEHICLES 20 25 30 35	40 NO CENT PERCEN
D ₁ 1 2	20 25 30 33	
9		
37 <u>-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1</u>	┞╏┧┧┧╏╏┧╎╏ ┼┼┼┼╏ ┆╏ ┿┼┿╏┿ ╏ ╅╏	
36		
45	4	
		1 0.34 100.00
42 X		
		1 0.34 99.66
40 ×		3 1.03 97.94
39 XX 38 XXX 37 XXX 36 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		3 1.03 96.91
5 7 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		14 4.81 92.10
35 KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		16 5.50 81.45
34 KKKKKKKKKKKKKKK	KKXXX	24 8.25 73.20
35		34 11.68 61.52 37 12.71 4881
3 TOWN AND AND AND AND AND AND AND AND AND AN		35 12.03 36.78
30 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		33 11.34 25.44
		34 11.68 13.76
57 DDDDDDDDDDDDD DDDDDDDDDDDDDDDDDDDDDDD	XXXXXX	25 8.59 5.17 9 3.09 2.08
26 XXXXXXXXX	++++++++++++++++++++++	4 1.37 0.71
25 XXXX		1 0.34 0.37
24 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		
21		
20		
30 X X X X X X X X X X X X X X X X X X X		
	+++++++++++++++++	
16		
		001

- 1. ACCIDENT RATE = SEE WESTBOUND
- 2. ADT = " "
- 3. CURVES TO THE LEFT-GOOD SIGHTS
- 4. RESIDENTIAL

REMARKS

291







LOCATION 1000-500 RALSTON, SOUTH Rd to OLD COUNTY Rd 28 DIRECTION EASTBOUND 50TH PERCENTILE SPEED____ DATE APRIL 23, 1982 85TH PERCENTILE SPEED 32 23-33 IO MPH PACE SPEED____ DAY FRIDAY 82.20 PERCENT IN PACE SPEED_____ TIME 1005-1025 15-39 POSTED SPEED LIMIT 25 RANGE OF SPEEDS_____ 40' 0.92 SKEWNESS INDEX____ STREET WIDTH DBSERVER SNOOTARS N BRICHACEK ANALYSIS BY N. BRICHACEK TOTL PER- ACCUM OF VEHICLES NUMBER EED 40 NO CENT PERCENT 48 47 45 44 43 42 41 40 0.38 100.00 39 38 37 36 1.52 152 3.03 25 24 23 22 21 4.27 3.9/ 2.65 1.63 0.38

- 1. ACCIDENT RATE = SEE WESTBOUND
- 2. ADT = " "
- 3. ENTRANCE TO TWIN PINES ON RIGHT
- 4. BUSINESS DISTRICT

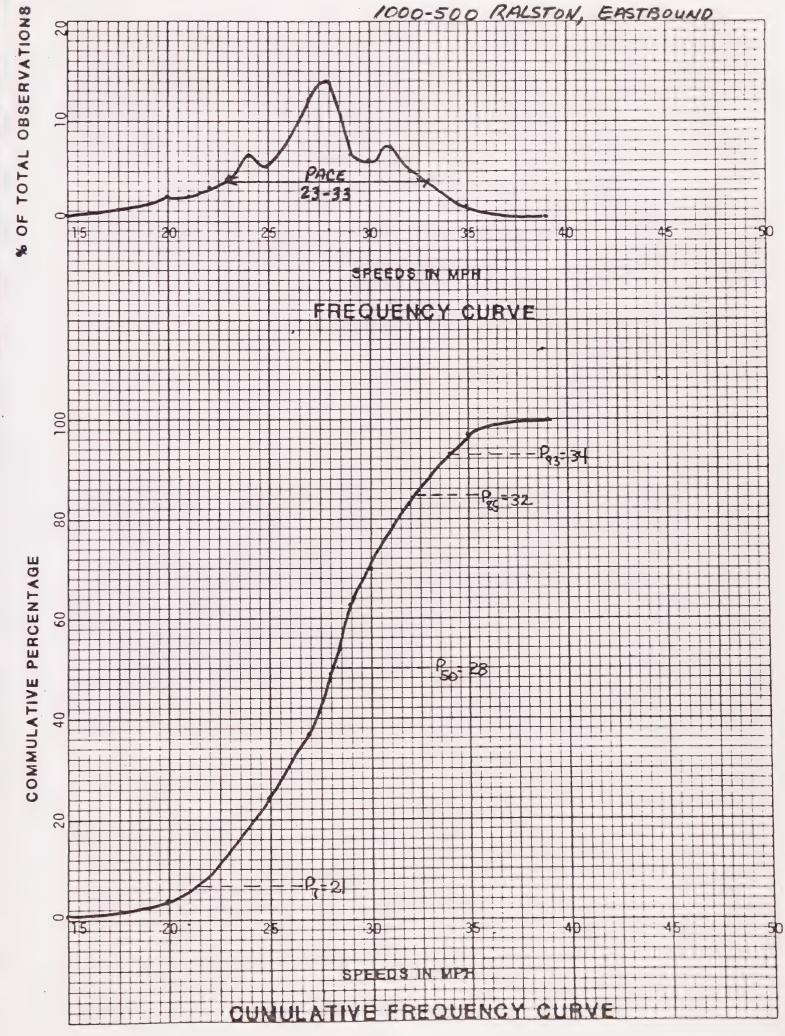
15

REMARKS

2 0.76

0.87



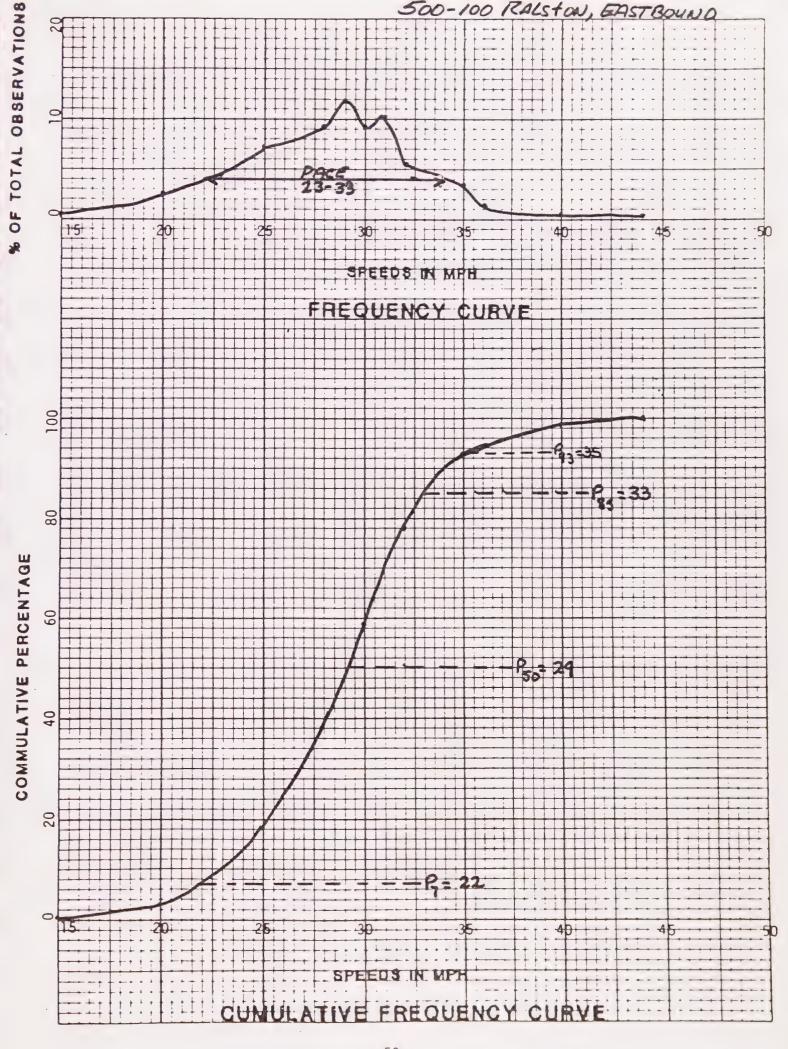




	- 4
OLD COUNTY Rd to Hille	e Str.
50TH PERCENTILE SPEED	29
BETH DEDCENTHE COFED	32
_ BOTH PERCENTILE SPEED_	02 22
PERCENT IN PACE SPEED_	79.40
DANCE OF SPEEDS	15-44
HANGE OF SPEEUS	1 02
_ SKEWNESS INDEX	0,76
ANALYSIS BY N. BRI	CHACEK
	TOTY PER- ACCUM
	40 NO CENT PERCENT
┼┠╁╁╁╁╂┼┼┼┼┨┾┼┿╂┿	
+	
	1 0.30 100.00
	++++
	
	2 0.60 99.40
	2 0.60 98.80
	1 0.30 98.50
	4 1.19 97.31
	12 3.58 93.73
	17 5.07 84.18
	18 5.37 78.18
CANAXAKKK XXXXXXXX	34 10.15 68.66
KNAXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	31 9.25 59.41
	31 9.25 38.22
	17 5.07 33.15
XXXXXXXX	26 7.76 25.39
KXXXXX	24 7.16 18.23
	14 4.18 9.87
	1 1 1 (0 11.79 18.08
	7 2.09 5.99
	8 2.39 3.60
	2 0.60 1.81
	3 0.90 0.91
	1 0.30 0.61
	335
	3.25
	SOTH PERCENTILE SPEED B5TH PERCENTILE SPEED IO MPH PACE SPEED PERCENT IN PACE SPEED RANGE OF SPEEDS SKEWNESS INDEX ANALYSIS BY VEHICLES 20 25 30 35

- 1. · ACCIDENT RATE = SEE WESTBOUND
- 2. ADT = " "
- 3. BUSINESS-RESIDENTIAL AREA



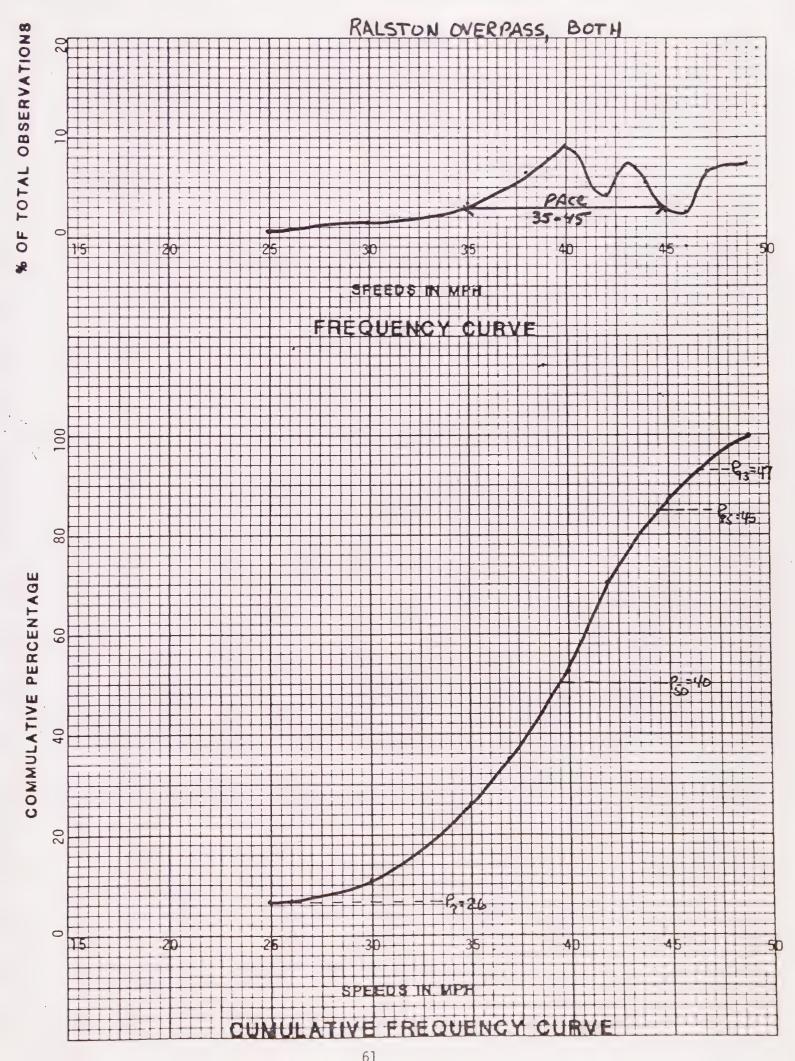




LOCATION RALSTON OVERPASS, H	LLER ST & EAST CITY LIMI	rs
DIRECTION_BOTH	SOTH PERCENTILE SPEED	40
DATE APRIL 28, 1982	85TH PERCENTILE SPEED	45
O A Y WEDSENDAY	IO MPH PACE SPEED	35-45
1505 HOO	TELEFIER IN PACE SPEED	6364
TIME 1545-1600	PERCENT IN PACE SPEEU	0540
POSTED SPEED LIMIT 35	RANGE OF SPEEDS	35-49
STREET WIDTH 48'	SKEWNESS INDEX	7
DBSERVER 1. SNOODGRASS / N. BRICHACEK	ANALYSIS BY N. BRICHE	CEK
		TOTL PER- ACCUM
NUMBER OF	VEHICLES 0 25 30 35 4	ONG CENT PERCEN
39 XXXXXXXXX		9 7.44 100.00
	5565368899999 9	8 6.64 92.56
47 XXXXXXXXX	┖┦╌┦╌┦╌┦╌┦╌┦╌┦╸╃╌┼╌┼╍╂┿╾┼╌┼	8 6.61 92.56 3 2.48 90.08
46 XXX	╻╻╻╻╻╻╻╻	3 2.48 87.60
46 ××× × × × × × × × × × × × × × × × × ×		7 5.79 81.81
44 XXXXXX		9 7.44 74.37
43 XXXXXX		5 4.13 70.24
42 XXXXX		11 9.09 (d. 15
41 888888888888		11 9.09 52.06
		7 5.79 46.27
39 XXXXX 38 XXXXXX 37 XXXXX 36 XXXXX		8 (a.lel 39.lda 5 4.13 35.53
37 2222		7 5.79 29.74
3.6 XXXXXX		4 3.31 2643
35 XXXX		3 2.48 23.95
34 XXX 33 XXXX		4 3.31 20.64
33 🗶 🗶 🗡		4 3.31 17.33
32 XXXX		5 4.13 1320
		2 1.65 11.55
30 XX 29 XX 28 27 XX 26		2 1.65 9.90
29		2 1.65 8.25
37 XX		2 1.63 8.23
26		1 0.83 7.42
25 X		10.00
24	╏╶╏┈╏┈╏┈╏┈╏┈╏	
23		
22		
20		
19		
18		
		+++
15		121
REMARKS		121

- 1. STATE MAINTAINED
- 2. ACCIDENT RATE = 1.75/YR
- 3. ADT = 21,100





OCATION 300-700 MIDGLE ROAD SOTH PERCENTILE SPEED 23 DIRECTION BOTH DATE April 23, 1982 85TH PERCENTILE SPEED 29 17-27 DAY FRIDAY TO MPH PACE SPEED_____ TIME/025-1055 POSTED SPEED LIMIT 25 RANGE OF SPEEDS 15-37 STREET WIDTH ___ 24' 1.20 ___ SKEWNESS INDEX____ OBSERVER J SNONGRASS / N. BRICHACEK ANALYSIS BY MEDICHACER TOTL PER- ACCUM OF VEHICLES NUMBER PEED 40 NO CENT PERCENT 49. 48. 46 45 44 43 42 41 40 39 38 37 36 35 34 33 100.00 1.12 1.12 98.88 1.12 97.76 3.37 94.39 32 89.90 1.12 4.49 30 29 28 27 2.25 25 24 10.11 23 22 21 7.87 7 16.89 11 20 12.36 11.27 5.62 5 7.90 3.37 5.65

- 1. ACCIDENT RATE 17.53 MVM
- 2. ADT = 2,000

REMARKS

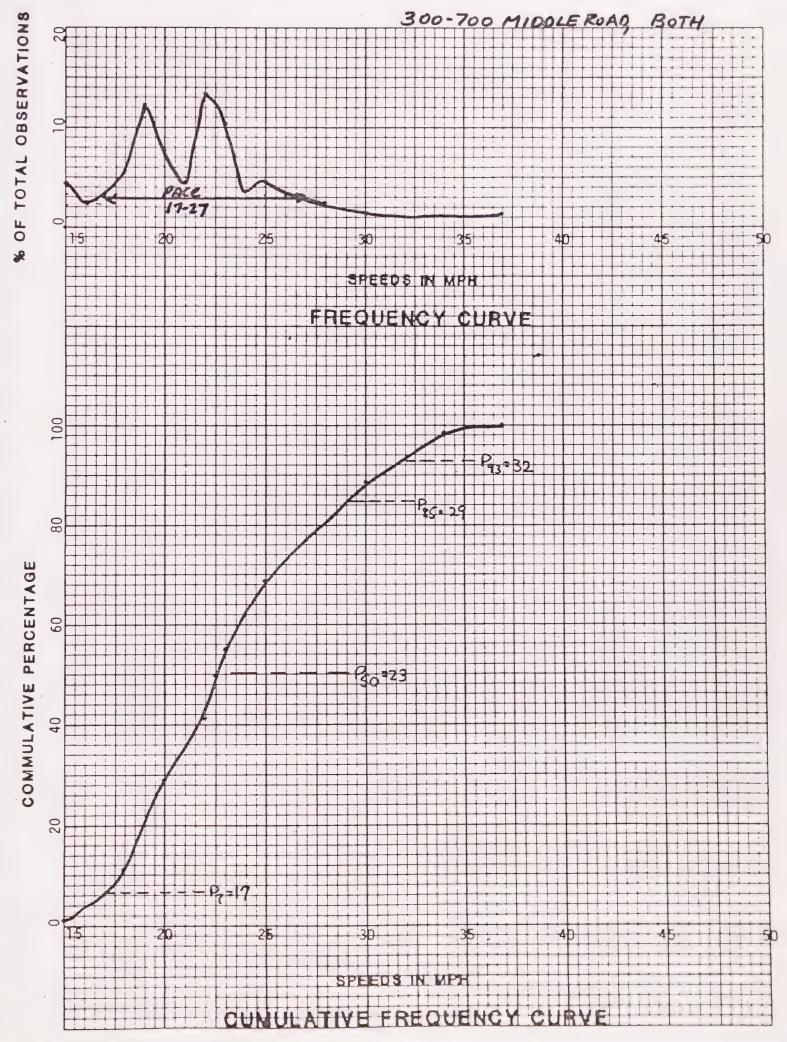
- 3. WINDING ROAD WITH LIMITED SIGHT DISTANCES
- 4. RESIDENTIAL

4

89

4.49

1.16



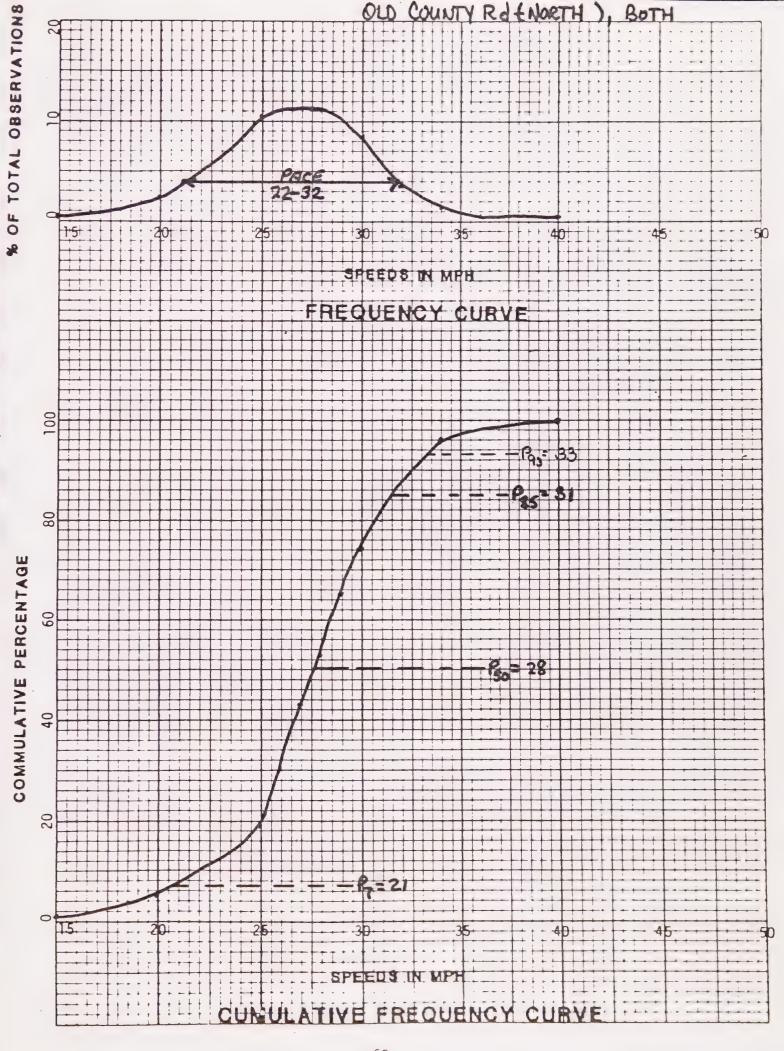


OCATION OLO COUNTY ROLL NORTH &	FRALSTON AVE)	
DIRECTIONBOTH	50TH PERCENTILE SPEED	
ATE_APRIL 23, 1982	85TH PERCENTILE SPEED 3/	
A Y FRIDAY	10 MPH PACE SPEED 22-	32
TIME 1055-1120	DEDCENT IN DACE SOCIO 82	3.5
TIME 1055-1120	PERCENT IN PACE SPEED	10
POSTED SPEED LIMIT 25	RANGE OF SPEEDS 73-3	•0
STREET WIDTH 30'	SKEWNESS INDEX 0.83	
OBSERVER J. SHOOLATES / N. BRICHACEK	ANALYSIS BY D. BRICHACEK	
NUMBER OF	VENICI EC TO	TU PER- ACCUM
EED . 5 10 15 20		O CENT PERCENT
18		
46		
45		
94		
43		
42		1 0.57 100.00
41 40 × 39 × 38 × 37 × 36 × 36 × 33 × 34 × 33 × 34 × 33 × 34 × 35 × 36 × 37 × 38		1 0.57 99.43
39		1 0.57 98.86
38		1 0.57 98.29
37		2 1.14 97.15
35		2 1.14 96.01
34 XX	┇┆┇╎╒┋┋ ┼┼┼┼┼┼┼┼┼┼┼┼┼	8 4.53 91.46
33 XXXXXXX		6 341 88.05
32 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		9 5.11 82.94
32 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		15 8.52 74.42
		16 9.09 65.33 20 11.36 53.97
28 KIZI KIZI KIXIX XXXXXXXXXXXXXXXXXXXXXXX		19 10.79 43.18
27 RXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		23 13.07 30.11
29 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		19 10.79 19.32
25 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		10 5.68 14.24
24 8888888888		7 3.48 10.26
23 000000		2 1.14 9.12
21 Q		2 1.14 7.98 4 2.27 5.71
20 ***		4 2.27 5.71 2 1.14 4.57
26	┇┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋	~ 1.07
	┇┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋	3 1.70 2.87
17. KXX		2 1.14 1.73
16		1 0.57 1.16
15		76

- 1. ACCIDENT RATE = 11.27 MVM
- 2. ADT = 8,400

REMARKS

- 3. BUSINESSES ON WEST SIDE
- 4. RESIDENTIAL ON EAST SIDE



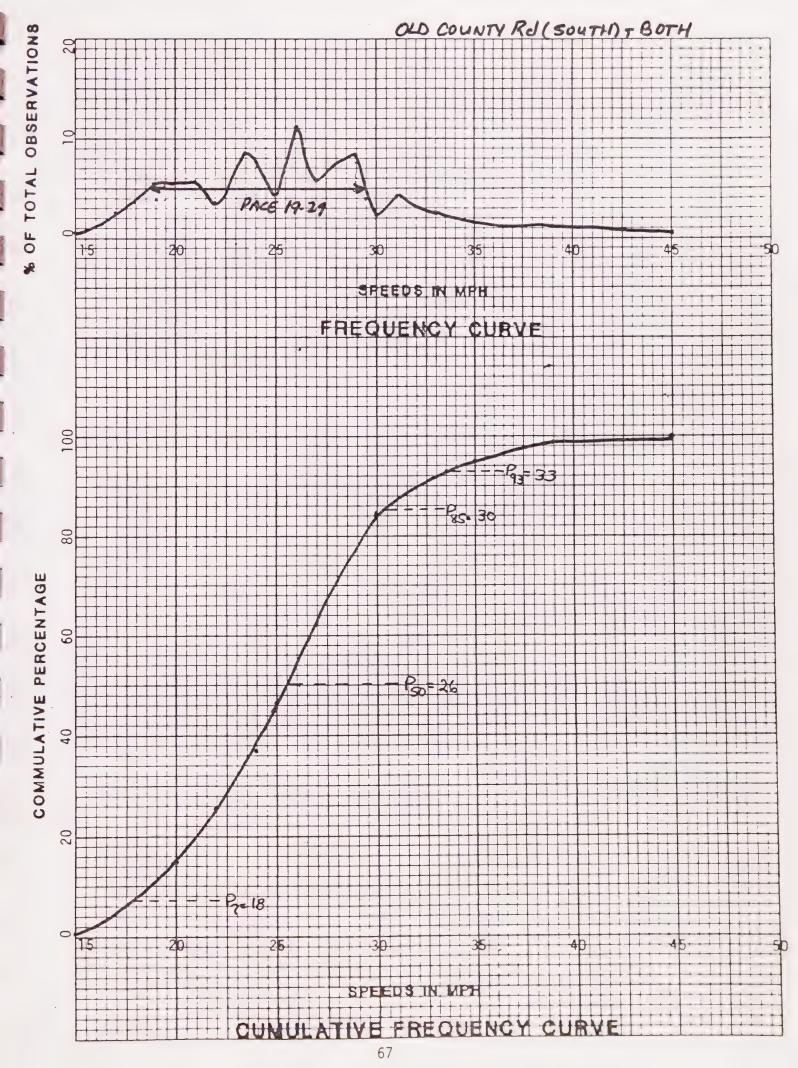
LOCATION OLD COUNTY Rd (SOUTH	of RALSTON)	
DIRECTION BOTH	50TH PERCENTILE SPEED 26	
DATE APRIL 23, 1982	ASTH PERCENTILE SPEED 30	
O A Y FRIDAY	10 MPH PACE SPEED 19-29	
	TO MIPH PACE SPEED	
TIME 1125-1150	PERCENT IN PACE SPEED 75.14	
POSTED SPEED LIMIT 25	RANGE OF SPEEDS 15-45	
STREET WIDTH	SKEWNESS INDEX 0.93	
DBSERVERJ. SNOOGYNGS A-BRICHACEK	ANALYSIS BY ALBERHACEK	
	700 055	Laccina
NUMBER OF	VERICLES TO ACINO CEN	
0 1	25 30 35 40 NO CEN	T. S. G.
49		
48 47 47		
46	1 0.50	1 100.00
45 X 44 43 42 42 42 43 42		
43		-
42		
40	2 1.08	98.92
39 XX 38 X 37 X 36 X	1 054	
37 × 1	1 0.54	
36 8	3 7.62	
35 KKK		0 - 40
34 33 XXXXX	5 2.70	
32 XXXX	8 4.32	90.82
31 XXXXXXX		
	V6 8.65	
29 KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	14 7.53	
29 K X X X X X X X X X X X X X X X X X X	5.95	
27 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2/ //.33	5 50.82
26 KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9 4.3	2 46.50 37.85 29.74
25 KXXXXXXX	8.65	37.85
24 KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	V5 8:11	29.74
23 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7 378	25.96
22 KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	5.95	
21 3333555050	VO 5.41	1 14.60
20 12/12/12/12	VO 5.4	1 9.19
19	5 2.70	6.49
18 88888	4 2/4	433
16 888 WWW 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 3.24	1.09
25 X X X X X X X X X X X X X X X X X X X	1 0.59	0.55
15 KI I I I I I I I I I I I I I I I I I I	185	

- ACCIDENT RATE = 11.13 MVM 1.
- 2. ADT = 6,000

15 K

3. RESIDENTIAL AND BUSINESS







OCATION ALAMEDA DE LAS PULGAS (NORTH OF RALSTON)
IRECTION BOTH	50TH PERCENTILE SPEED
ATE APPLI 23 1982	85TH PERCENTILE SPEED 25
FOLOAV	10 MPH PACE SPEED 17.5-27.5
A Y PRIDAY.	90 00
IME 1200-1225	PERCENT IN PACE SPEED 98.00
OSTED SPEED LIMIT 25	RANGE OF SPEEDS 17-32
20'	CKEWNESS INDEX
TREET WIDTH	ANALYSIS BY N. BEKHACEK
BSERVER JNOOGPASS A ISHICHACES	ANALTSIS BI
NUMBER OF	VEHICLES TOTL PER- ACCUM O NO CENT PERCEN
5 10 15 2°	25 30 35 40 NO CENT PERCEN
9	
6	
15	
3	
2	
10	
9 8 7	
3.5	
33	1 0.67 100.00
32 X	
	0.67 99.33
29 X	1 0.67 198.66
28 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5 333 9533 9 6.00 8933
26 KKKKKKKKKK	9 6.00 8733
25 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	22 14.67 6S.33
24 88888888888888888	28 18-47 46-46
26	20 13.33 33.33 21 14.00 19.33
2 L XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	11 7.33 12.00
20 XXXXXXXXXXX	6 4.00 8.00
19 888888	9 600 2.00
18 XXXXXXXX	2 1.33 0.67

- 1. ACCIDENT RATE = 5.42 MVM
- 2. ADT = 8,400

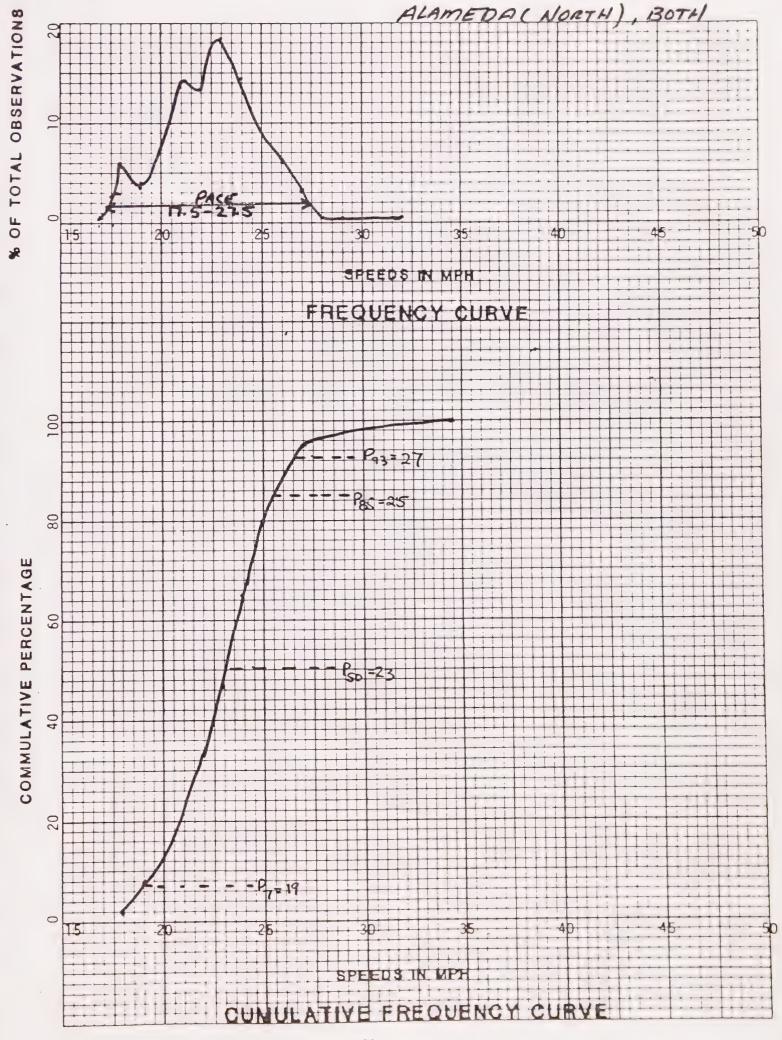
REMARKS

3. WINDING NARROW ROAD WITH STOP SIGNS, LIMITED SIGHT DISTANCES

150

4. RESIDENTIAL







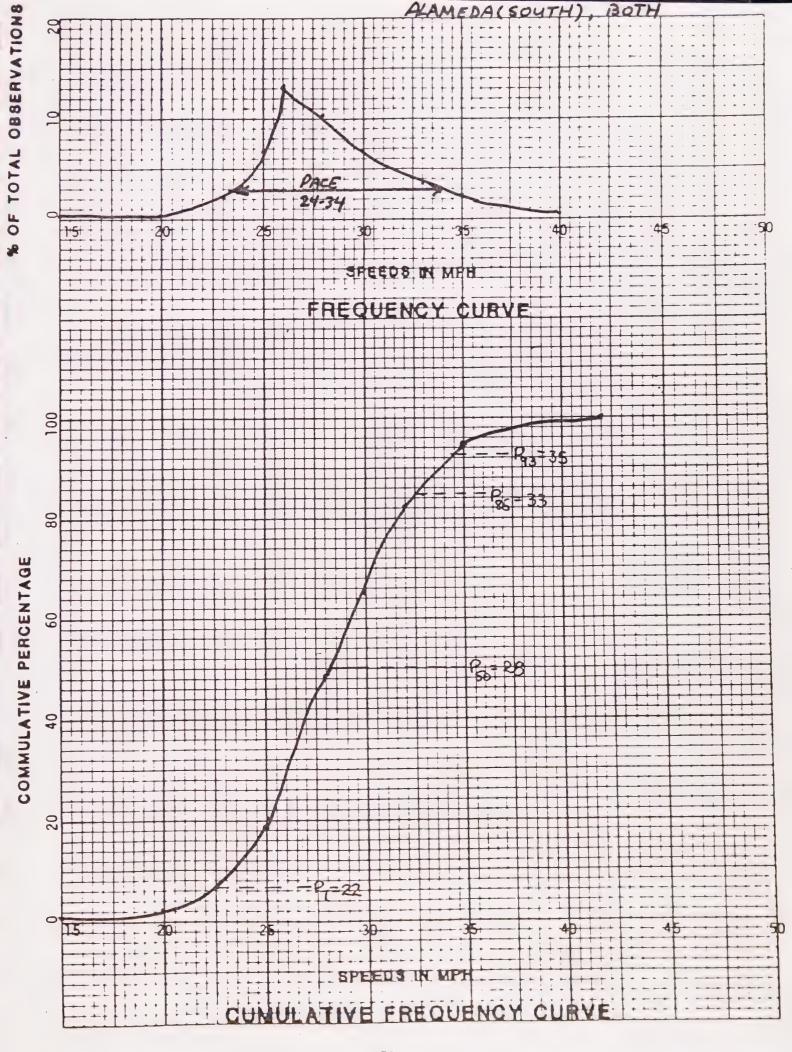
	41
OCATION ALAMEDA DE LAS PULGAS	(SOUTH of RALSTON)
RECTION BOTH	F379
ATE APRIL 23, 1982	85TH PERCENTILE SPEED 33
AY FRIGAY	
	PERCENT IN PACE SPEED 83.88
	RANGE OF SPEEDS 15-42
OSTED SPEED LIMIT25	RANGE OF SPEEDS
TREET WIDTH	SKEWNESS INDEX 1.08
BSERVER J SWOOD PRICHACEK	ANALYSIS BY N. BRICHACEK
NUMBER OF	VEHICLES TOTL PER- ACCUM
5 10 15 20	
9	
8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
6	
5	
3	1 0.33 100.00
2 X	1 0.33 9967
0 × 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
9 8 XX	2 0.66 97.01 3 0.99 %:02
7 2 2 2	3 0.99 97.03
6 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 2.30 94.73
	7 2.30, 92.43
3 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	16 5.26 82.24
2 KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	29 9.54 73.70
	2/ 6.9/ 65/7
O KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	20 G.SF 59.21
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	30 9.87 388/
2 6 KIKAKAZIANANANANANANANANANANANANANANANANANANA	21 6.91 18.74
25 KIXIXXXXIXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	247.89 10.85
A KINKKIKINAKKIKIKIKI KINKIKI	70 3.29 7.56
23 MAKKAKKAKA	8 2.63 4.93
22 KANANA	7 2.30 2.63
25	1 0.33 2.30
20 0	2 0.66 1.64 1 0.33 7.31
25	/ 0.33 /.3/
18 8	2 0.66 0.65

- 1. ACCIDENT RATE = 7.56 MVM
- 2. ADT = 16,600

16 15 X REMARKS

3. BUSINESS & RESIDENTIAL

304





									_				
OCATION	2400	-2800	HALL	MARI	5								-
PECTIO	N BOTH				50 TH	PER	CENTILE	SPEE	0		26		
ATE	APRIL	28.198	2		85 TH	PER	CENTILE	SPEE	D		32		
	WEDSE	MOOK			10 M	PH PA	CF SR	EED			22-3	32	
AY	MEUSE	NUH			10 14						227	9	
I ME.	0930 -	0950			PERC	ENT	IN PACE	SPE	.0		1- 4		
OSTED	SPEED LI	MIT_2	5		RANG	SE OF	SPEED	S			5-4		
STREET	WIDTH_	. 3	7.		SKE	WNESS	INDE	x		0	.94		
BSERVE	RJ. Swodar	ALL N. BR	KHACEK		ANA	LYSIS	BY	N.	Bek	HACE	K		
		NUM				HICLES					TOTL		ACCUM
EED	, 5	10	15	20		25	30		5	40	NO	CENT	PERCENT
9.				111	\prod	+++	-	+++	╂┼┼	++			
7	 		++++	+++	+++								
6	 								\sqcup	+	-		
5	PITT							+++	+++	-++-	-		
4				+++	+++	+++	++++	+++	++-			· ·	
13	 		++++	╁┼╂	+++	+++	╎ ┼┼╂┼	+++			1		
12	╀╂╂┼┼┼	- $+$ $+$ $+$ $+$	-+++	+++	+++	+++	+++++				1	1.16	100.00
40	╀╂╂╂╉		-+++	+++	+++	111					1		
40	 										1	1.16	98.14
9 8 X 17 X 16 X X	++++					+++	 	+++	++-	 	1	1.16	97.68
57 X				+++	+++	+++	┞┞╏ ┼	-+-+-	++-	+++	2	2.33	195.35
6 XX			-+++	╁┾╂	╅╋	+++	++++	-+++	1		1	1.16	94.19
	++++	╒╶╏╶╏ ╌┞╾╄╾┤		+++	+++	+++						2 1/2	10
4	, 			+++	+++						3	3.49	
33 XXX								+++		+++	3	3.49	
31 22	XX				+++	+++	++++			+++	4	4.65	
30 XX						+++			++-	+++	3	5.81	
29 XX	XXX			+++	+++	+++	++++			╁╌╂╌╂	4	4.65	
28 XX	XX				+++	+++	╀╂╂		++	+++	14	4.65	62.80
28 XX 27 XX	53				+++	-+++	+++		++	111	11	12.79	50.01
26 KX	KXXXXX XXXXXX			+++	+++	+++	++++				4		45.36
25 XX	XX				++-	-++-	++++		++		7	8.14	
24 XX	XXXXX			+++							. 5	5.81	
23 00	XXX			+++						111	3	3.49	
35 100	7	1111								+++	2	2.33	25.59
25 XX 24 XX 23 XX 22 XX 21 XX 20 XX	XXX								11	111	5	5.81	
SY DO	CPO II	++++								+++	3	3.49	
19 XX 18 XX	2 V									+++	3	4.65	
I D IA				1 1 1				1 1 1		1 1 1		1 J. T 7	0.70

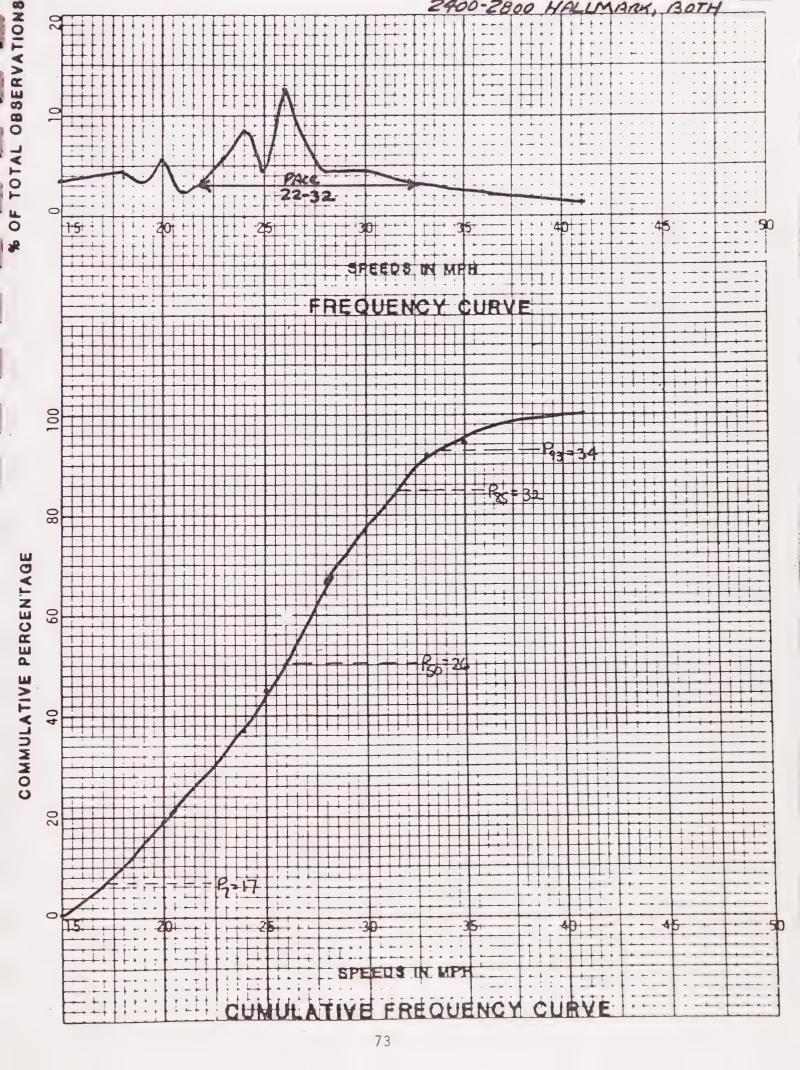
- 1. ACCIDENT RATE = 5.47 MVM
- 2. ADT = 4,400

REMARKS

- 3. DOWNGRADE & UPGRADE WITH GOOD SIGHT DISTANCES
- 4. RESIDENTIAL

86

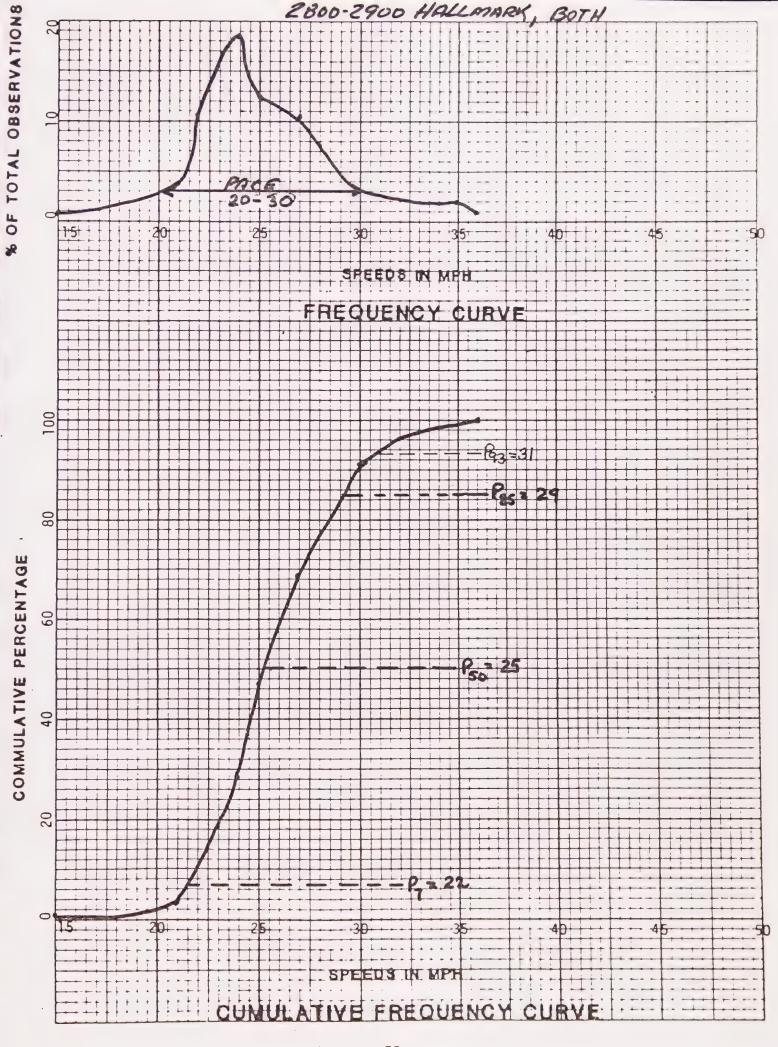




2000 2000 ILNI MAGY	•	
OCATION 2800-2900 HALLMARK		
DIRECTION BOTH	50TH PERCENTILE SPEED	
DATE APRIL 28, 1982	85TH PERCENTILE SPEED 29	
A Y WEDSENDAY	10 MPH PACE SPEED 20-30	
7625 1010	PERCENT IN PACE SPEED 90.20	
TIME 0925-1010	PERCENT IN FACE STEED	
OSTED SPEED LIMIT	RANGE OF SPEEDS 15-36	
STREET WIDTH 48'	SKEWNESS INDEX 1.33	
BSERVER J. SNE GrASS / N. BRICHACEK	ANALYSIS BY N. BRICHACEK	
	TOTAL DED LACE	UM
	VEHICLES TO THE ACINO CENT PER	
9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
8		
97 16		
P6		
44		
43 }2		
12		
40		
40 39 58 57 36 X 35 XX		
<u> </u>	1 0 98 100.	000
3 6 X	2 196 98	
35 XX		
33	3 2.94 95.	10
32 XXX	1 0.98 94.	
3	3 2.44 91.	
30 XXX 29 XXXX 28 XXXXXX 27 XXXXXX 26 XXXXXX	4 3.92 87 8 7.84 19.	
28 XXXXXXX	8 7.84 14.	
27 KKKKKKKKKKK	9 8.82 59.	
25 RV R R R R R R R R R R R R R R R R R R	13 12.75 47.	
24 VZXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	19 18.63 28.6	
23 CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	11 10.78 7.8	36
25 XX	3.92	94
20		
20 19 18 17 ×		
18	1 0.98 2.9	96
16 8	1 0.98 1.0	00
15	102	
REMARKS		

- 1. ACCIDENT RATE = 1.51 MVM
- 2. ADT = 4,000
- 3. RESIDENTIAL



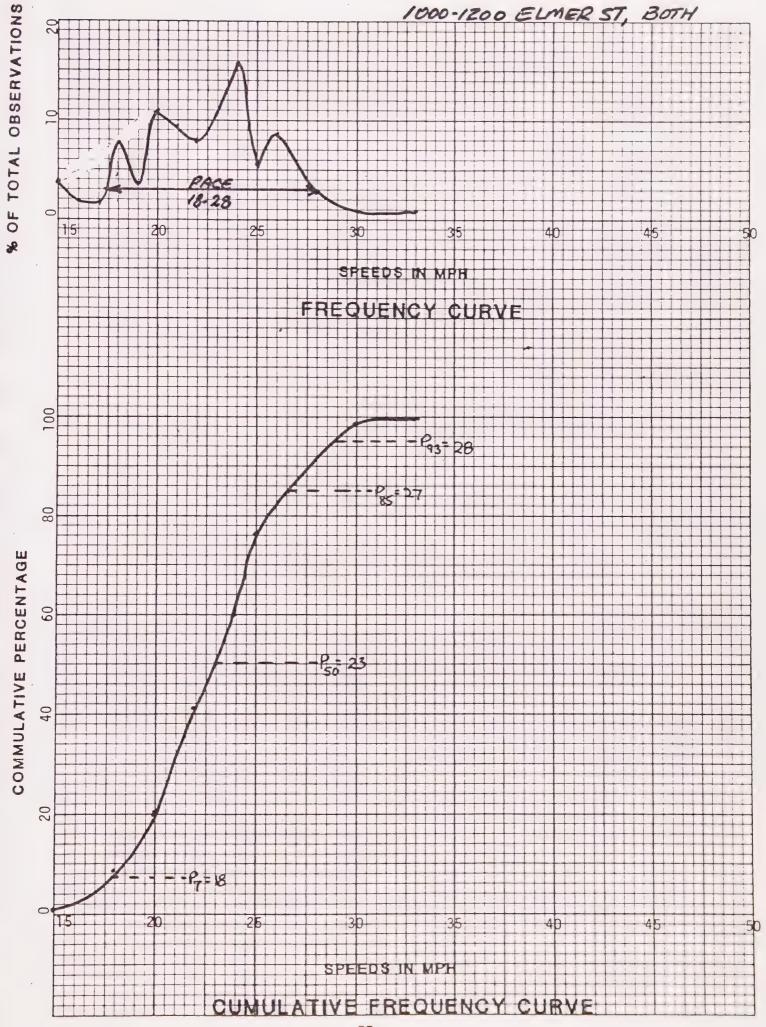




IDAD 1300 FLASED C	•
OCATION 1000-1200 ELMER SL	22
DIRECTION BOTH	50TH PERCENTILE SPEED 23
ATE APRIL 29.1982	85TH PERCENTILE SPEED 27
A Y Thursday	10 MPH PACE SPEED
1465 133	90 //
TIME 1455-1530	PERCENT IN PACE SPEED
OSTED SPEED LIMIT25	RANGE OF SPEEDS
STREET WINTH 25'	SKEWNESS INDEX 1.00
DBSERVER J. SNODGRASS N. BRICHACEK	ANALYCIS BY 1/ COULHOCEY
BSERVER 1.3 MODELLE M. DRICHACE	ANALTSIS BI N. BRICHERES
EEDO 5 10 15 2	VEHICLES O 25 30 35 40 NO. CENT PERCENT
EED 5 10 15 2	O 25 30 35 40 NO CENT PERCEN
8	
94	
93	
12	
40	
38	
3.9 3.8 3.7 3.6 3.5	
33 🗴	1 0.99 100.00
32	
31	1 0.99 99.01
30 × 29 × 28 × × × × × × × × × × × × × × × × ×	1 0.99 98.02
28 8 6 6	3 2.97 95.05 9 8.91 86.14
27 XXXXXXXX	6 5.94 80.20
26 KKKKK	4 3.96 76.24
25 KXXX 24 KXXXXXXXXXXXXXX 23 KXXXXXXXXXXX	16 15.14 60.40
24 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	11 1059 49.51
23 K C C C C C C C C C C C C C C C C C C	8 7.92 41.59
22 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	10 9.90 31.69
20 KXXXXXXXXXX	11 10.89 20.80
19 XXXX	8 7.92 8.92
18 XXXXXX	2 1.98 6.94
17 88 111111111111111111111111111111111	2 1.98 4.96
16 X X X X X	4 3.96 1.00
25 KXXX 24 KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	101
Emaning	

- 1. ACCIDENT RATE = 4/yR
- 2. ADT = NOT AVAILABLE
- 3. RESIDENTIAL







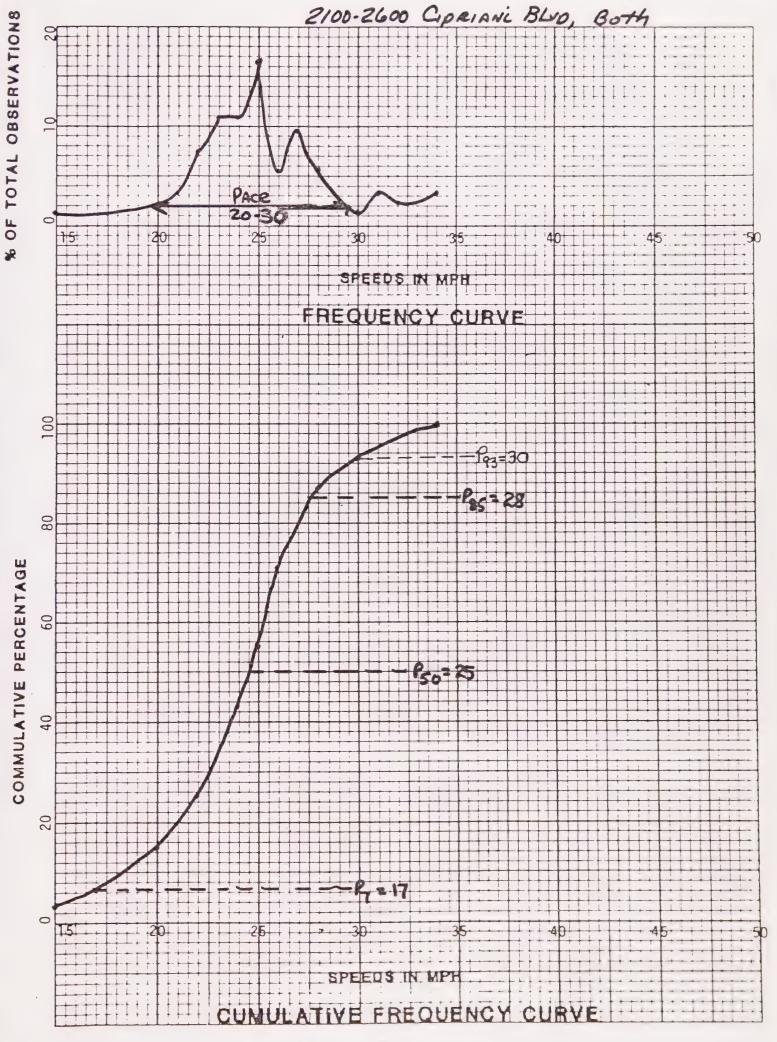
OCATION 2100-2600 CIPRIANL BL	vd .		_
RECTION BOTH	SOTH PERCENTILE SPE		
ATE APRIL 28, 1982	85TH PERCENTILE SP	EEO2B	-
A Y WEDSENDAY	10 MPH PACE SPEEL	20-30	
I M E 1015-1100	PERCENT IN PACE SE	FED 79.12	_
OSTED SPEED LIMIT 25	PANCE OF COSEOS	15-34	
OSTED SPEED LIMIT	RANGE OF SPEEUS	0.77	_
TREET WIDTH 25'	SKEWNESS INDEX) AA	
BSERVER J. SHOOL OF ASS N. BRICHACEK	ANALYSIS BY A).Beichacek	
NUMBER OF	VEHICLES	TOTL PER- ACCU	
	0 25 30	35 40 NO CENT PERC	ENL
7		+++++	
6			
5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		++++++	
2	┠┼┼┼┼┼┼┼┼┼┼		
╻ ╊╂┼╀╂┼┼┼┼┼┼┼┼┼┼┼┼			
		+++++	
9 8			
7			
5		3 3.30 100.	00
4 XXX		1 3 3.30 100.	
3		2 2.20 97.8	
2 X X		3 3.30 94.5	
		1 1.10 93.4	
0 X 9 X 8 X X X X 7 X X X X X X X X		1 1.10 92.	
		5 5.49 86.0 9 9.89 76.9	
7 XXXXXXXXX		5 5.49 71.4	
6 XXXXX	╏┊┊╘╘╘╘╘╘╘	15 16.48 54.	
5 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		10 10.99 43.	96
4 × × × × × × × × × × × × × × × × × × ×		10 10.99 32.9	97
3 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		7 7.69 25.	28
2 XXXXXX		3 3.30 21	
6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		6 6.59 15.	39
OXXXXX		3 3.30 /2.0	29
9 665		3 3.30 8.7	9
9 XXX 8 XXX 7 XX		2 220 4.5	7
		2 2.20 43	70
9 X X X X X X X X X X X X X X X X X X X			. 7
N. T. C.		91	

- 1. ACCIDENT RATE = 5.23 MVM
- 2. ADT = 7,300

EMARKS

3. WINDING, UPGRADE AND DOWNGRADE, STOP SIGNS, AND LIMITED SIGHT DISTANCES.





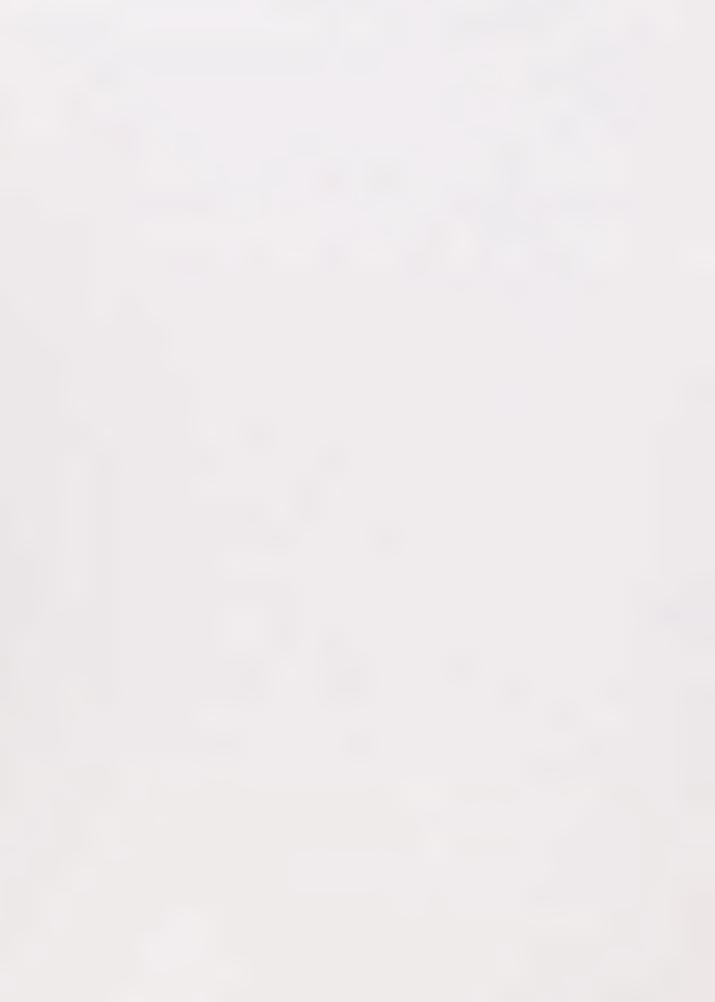


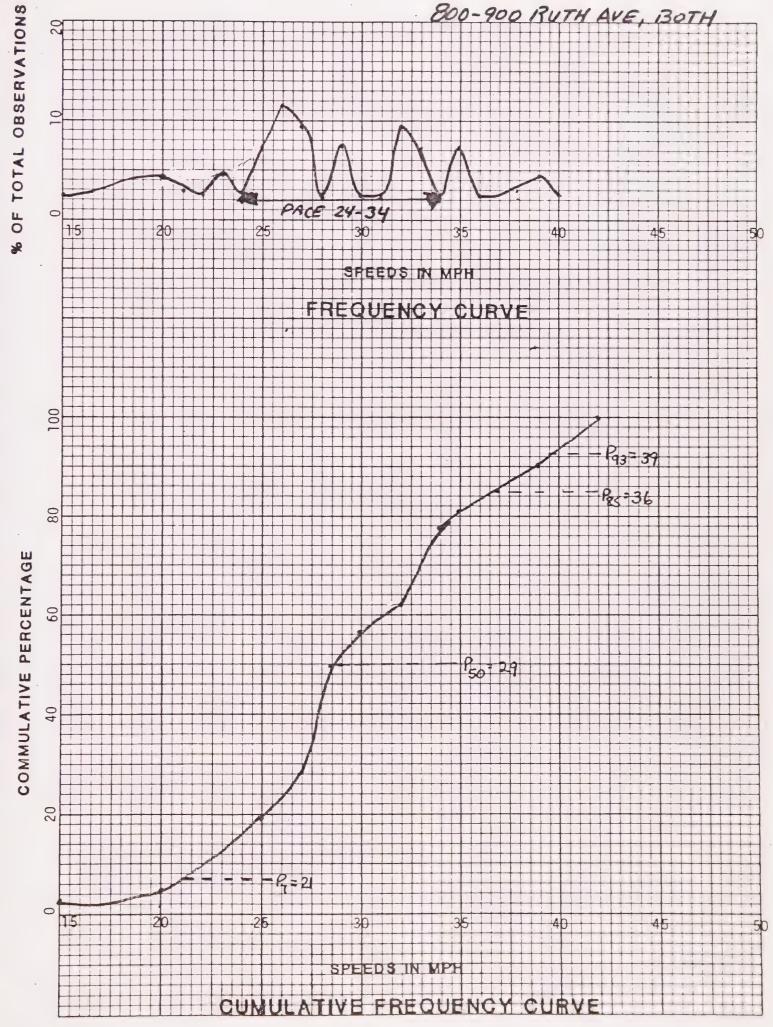
CATION 800-900 RUTH AVENU	UE	-
RECTION BOTH		_
AZE APPLI 20 BB2	85TH PERCENTILE SPEED 36	_
	4 . 4	-
IME 1340-1440	PERCENT IN PACE SPEED 64.29	-
STED FORED LIMIT 25	PANGE OF SPEEDS 15-42	
23'	SKEWNESS INDEX /. //	
TREET WIDTH	SKEWNESS THUEN	-
BSERVER J. SNOOD TASS N. BRICHACEK	ANALYSIS BY N. BRICHACEK	_
NUMBER OF	VEHICLES TOTL PER ACCUM	
EDD 5 10 15 20		DIL
		_
	┖┼┼┼┞┼┼┼┼┼┼┼┼┼┼┼┼┼┼	_
5		_
4		
3 2 X	1 2.38 100.00	
	1 2.38 95.20	
2 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4.76 90.48	3
0 X 9 XX 8		
7	1 2.38 88.10	
6 🛇	3 7.14 80.96	_
5 X X X 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2.38 78.55 3 7.14 71.44	
3 XXX III III III III III III III III II	4 9.52 61.92	
2 XXXX	2.38 59.5	4
	1 2.38 57.16	
	3 7.14 50.02	
8 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 9.52 38.12	
7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5 11.90 24.2	2
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 7.14 19.08	_
	1 2.38 16.70 2 4.76 11.94	
3 00	1 2.38 9.54	
8 X X X X X X X X X X X X X X X X X X X		
	2 4.76 4.80	
9		
8		
7		
15 X	2.38 2.42	
Y	42	

- 1. ACCIDENT RATE = 10/YR
- 2. RESIDENTIAL

EMARKS

3. UPGRADE/DOWNGRADE TO STATE HIGHWAY

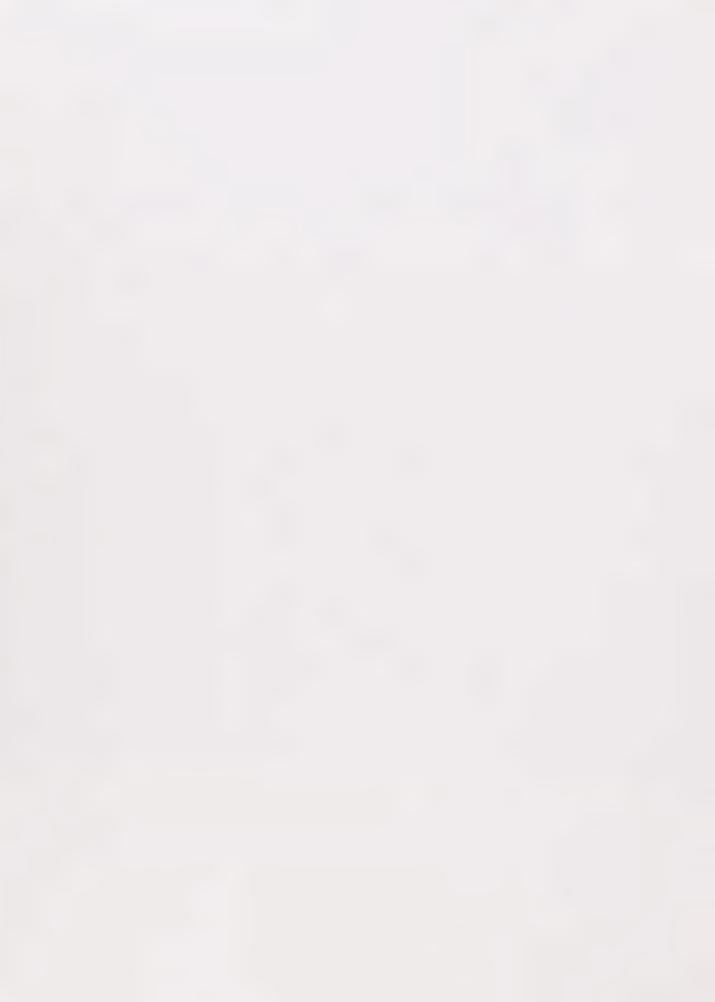


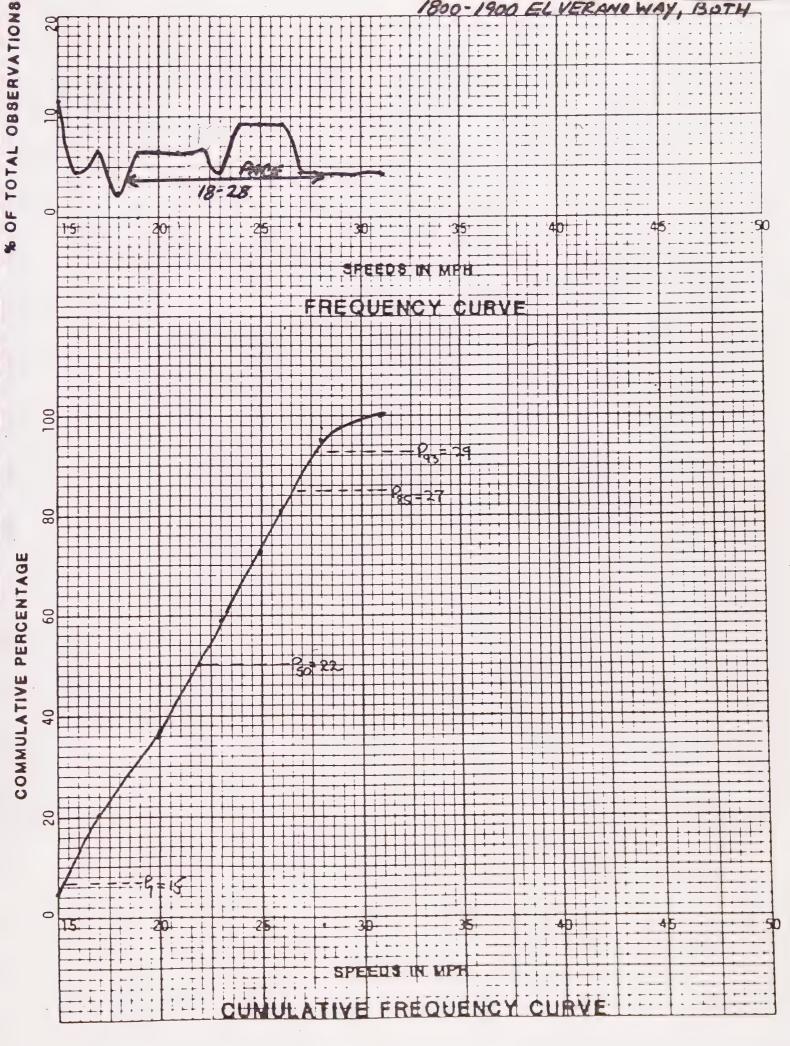




OCATION 1800 - 1900 EL VERANO	WAY			
IRECTION BOTH	SOTH PERCENTILE SP	EED	22	
ATE APRIL 28, 1982	85TH PERCENTILE SP	EEO	26	
A Y WEDSENDAY	IO MPH PACE SPEEL	D	18-28	
I M E 1225-1300	PERCENT IN PACE OF	DEED	72.73	
I M E 1225-1300	PERCENT IN PACE ST	-220	15-21	
OSTED SPEED LIMIT 25	RANGE OF SPEEDS		15-51	
TREET WIDTH 25'	SKEWNESS INDEX_		1.00	
BSERVER J. SNOW GYASS N. BRITHACEK	ANALYSIS BY	N. BRIC	HACEK	
			TOTL PER-	ACCUM
NUMBER OF	VEHICLES 30		NO CENT	
6				
				
5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	╌┼┼┼╂┼┼╂┼┼	+	:	
3				
			-	
		++++		
9 8				
7		-+++++	-	
6		-+		
3				
			-	
			2 454	100.00
2 1 X X				
			2 4.54	95.46
28 🗙 🗙			7 2 4.54	90.92
9 8 × × 7 × × 6 × × × 25 × × ×			4 909	
2000			4 9.09	72.74
4 RRX		╁┼╂┼┼┼	2 4.54	59.11
23 (X)			4 9.09	50.02
			3 6.82	43.20
			3 6.82	36.38 29.56
19 XXX		+++++	1 2.27	
8 X			3 6.82	20.47
			2 4.54	15.93
15 XXXXX			5 11.36	7:3/
EMARKS			77	

- 1. :ACCIDENT RATE = 0.75/yr
- 2. ROAD CURVES UPGRADE/DOWNGRADE WITH LIMITED SIGHT DISTANCES
- 3. RESIDENTIAL





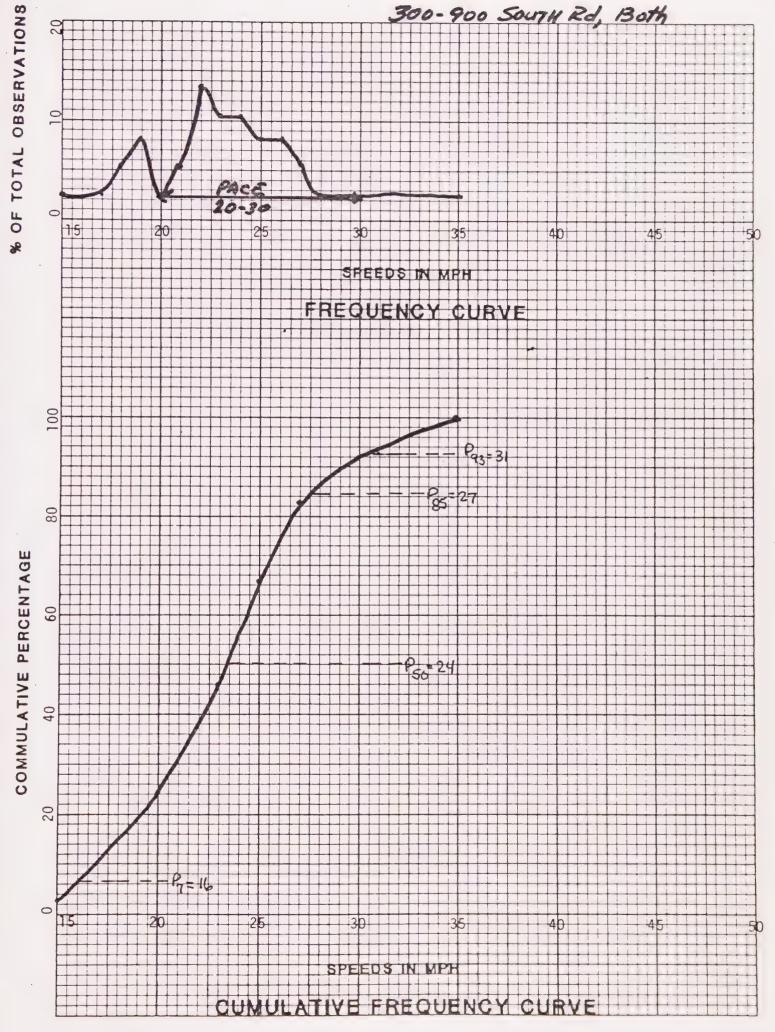


DEATION 300-900 SOUTH Rd.		
RECTION BOTH		_
ATE APRIL 28, 1982		-
	20.20	
A Y WEDSENDAY	70 27	
I M E 1300-1400		•
OSTED SPEED LIMIT 25	RANGE OF SPEEDS 15-35	
20'	CYTHNECS INDEX 1.00	~
IREET WIDTH	ANALYSIS BY N. REICHACEK	
BSERVERJ.SNOGGRASS N. BEICHALTE	MENICLES TOTH PER- ACCUM	<u>.</u>
AMMARCE 05	VEHICLES ACHO CENT CENT	
	0 25 30 35 40 NO CENT PERCE	
6		
5		
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9		
7 6 5 4	1 2.70 100.0	0
5 🗴		
	1 2.70 97.3	0
3 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.70 94.6	,D
2	1 2.70 91.9	
0 🗴		
9 /	1 2.70 84.2 A 540 83.8	
	A 5.40 83.8 3 8.11 75.6	
6 KXX	3 8.11 67.5	8
5 XXX	10.81 56.1	7
4 XXXX 3 XXXX	4 10.81 45.9 5 13.51 32.46	5
ZXXXX	2 5.40 27.0	
	1 2.70 24.35	5
0 800	3 8.11 16.25 2 5.40 10.84	
3 22	2 5.40 10.84	
9	2.70 5.40	1_
16	2.70 2.79	Ł
15 X	37	

- 1. ACCIDENT RATE = 2.5/YR
- 2. NARROW, WINDING WITH "S" CURVES; LIMITED SIGHT DISTANCES
- 3. | RESIDENTIAL

EMARKS



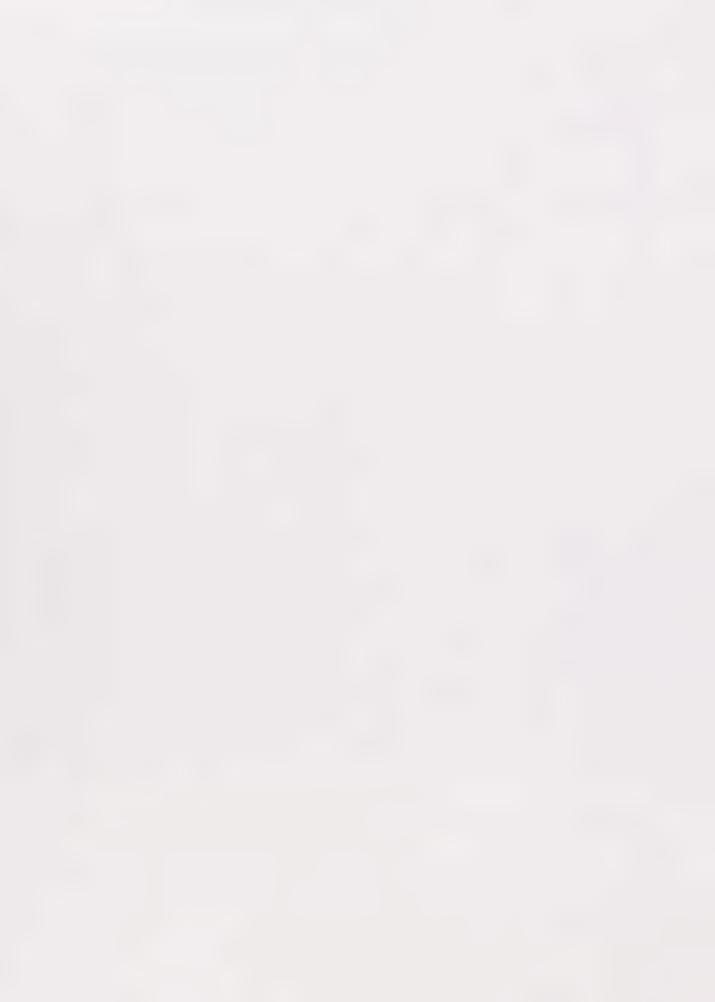


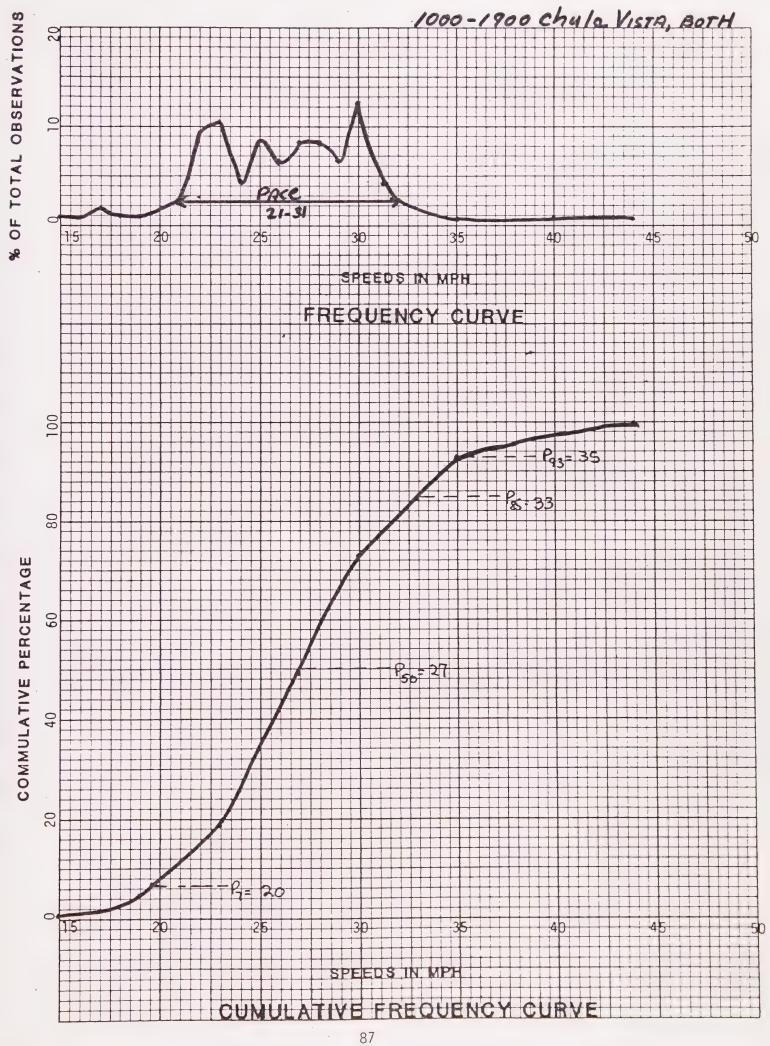
	•			
LOCATION 1000-1900 CHULAVIST			07	
DIRECTION BOTH		ENTILE SPEED		
DATE APRIL 29, 1982	85TH PERCE	NTILE SPEED	33	
A Y THURSDAY	IO MPH PAG	E SPEED_	21-3	1
TIME 1200-1305	PERCENT IN	MUE SPEEL	10.10	11
OSTED SPEED LIMIT 25	RANGE OF	SPEEDS	15-4	9
STREET WIDTH 25'	SKEWNESS	INDEX	1.07	
DBSERVER J. SNODGRASS N. BRICHACEK	ANALYSIS	BYN	BRICHACEK	
NIIMBED OF			TOTA	PER- ACCUM
	0 25	30 35	40 NO	CENT PERCENT
		-	+++++-+	
9				
97 16				
45			 	0.95 100.00
94 XIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		┡╶ ╂╌╂╌╂╌╂╌╂	╎╏╏╏	0.13 100.00
43	╂╁╂╁╂╂┼┼	╎┋╏ ┼┼┼┼╂	+++++	0.95 99.05
\$2 \\ \$1 \times \\ \$40 \times \\ \$39 \times \\ \$58 \times \\ \$3.7 \times \\ \$3.6 \\ \$3.5 \times \\ \$3.5 \times \\ \$3.5 \times \\ \$3.5 \times \\ \$3.6 \\ \$3.5 \times \\ \$3.6 \\ \$3.5 \times \\ \$3.7 \\ \$3.7 \times \\ \$3.7 \times \\ \$3.7 \times \\ \$3.7 \times \\ \$3.	╂┼┼┼╂┼┼	╁┼╂┼┼┼┼╂		2.95 98.01
91 1 1 1 1 1 1 1 1 1				0.95 97.15
90 8 + + + + + + + + + + + + + + + + + +				0.95 96.02
39 X 38 X				0.95 95.25
37		╎╎╏ ┼┼┼┼	╎ ┼┼┼╂┸╌┨	0.95 99.03
3 6	╂┼┼┼┼╂╋┿╋	┩ ╀┼┼┼┼╂	++++	095 93.35
3.5 3.4 3.3 3.2 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.2 3.1 3.1 3.2 3.1 3.1 3.2 3.1 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	╂┼┼┼┾╂┼┼	╏╏╏╏		0.95 92.40
34 🚫 📗 🔠	+ + + + + + + + + + + + + + + + + + +	+++++		0.95 91.45
33 866 + + + + + + + + + + + + + + + + + +	1 1 1 1 1 1 1 1		3	2.86 88.59
37 			3	2.86 85.73
30 KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				12.38 73.35
29			7	6.67 66.68
28 XXXXXXXX				8.57 58.11
27 MANKKKKKKI I I I I I I I I I I I I I I I I			++++	8.57 49.54 6.67 42.87
26 XXXXXXXX	+++++++	┤┤ ┼┼┼┼┼		8.57 34.30
25 KKKKKKKKK			1111	4.76 29.54
24 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	╂┼┼┼┼╂┼┿	╅┋┋ ┼┼┼┼┦	15	10.48 19.06
23 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	╀┼┼┼┼╂┼┼	 	10	9.52 9.54
22 XXXXXXXXXX	╀┼┼┼┼╂┼	+++++	3	2.86 6.68
25 X X X X X X X X X X X X X X X X X X X	++++++	++++		
20		+++++		0.45 5.73
19 X	 	+++++		0.95 4.78
18		+++++	1 2	0.95 2.88

- 1. ACCIDENT RATE = 14.15 MVM
- 2. ADT = 2,200

REMARKS

- 3. DOWNGRADE/UPGRADE WITH "S" CURVE OF LIMITED SIGHT DISTANCE
- 4. RESIDENTIAL



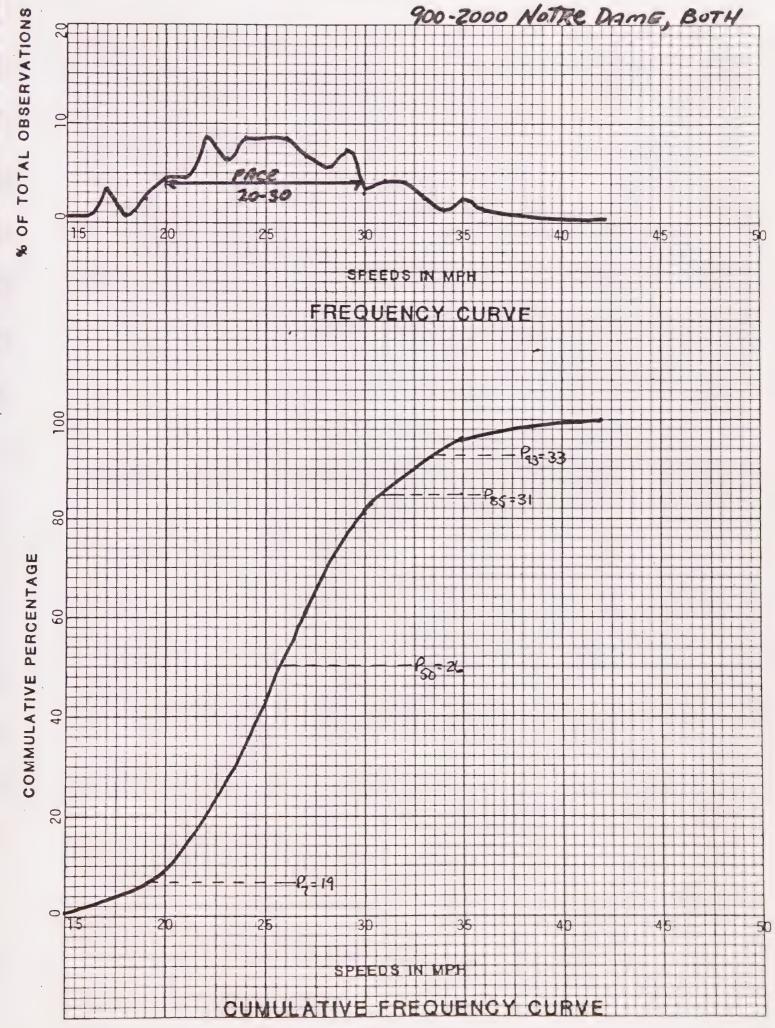


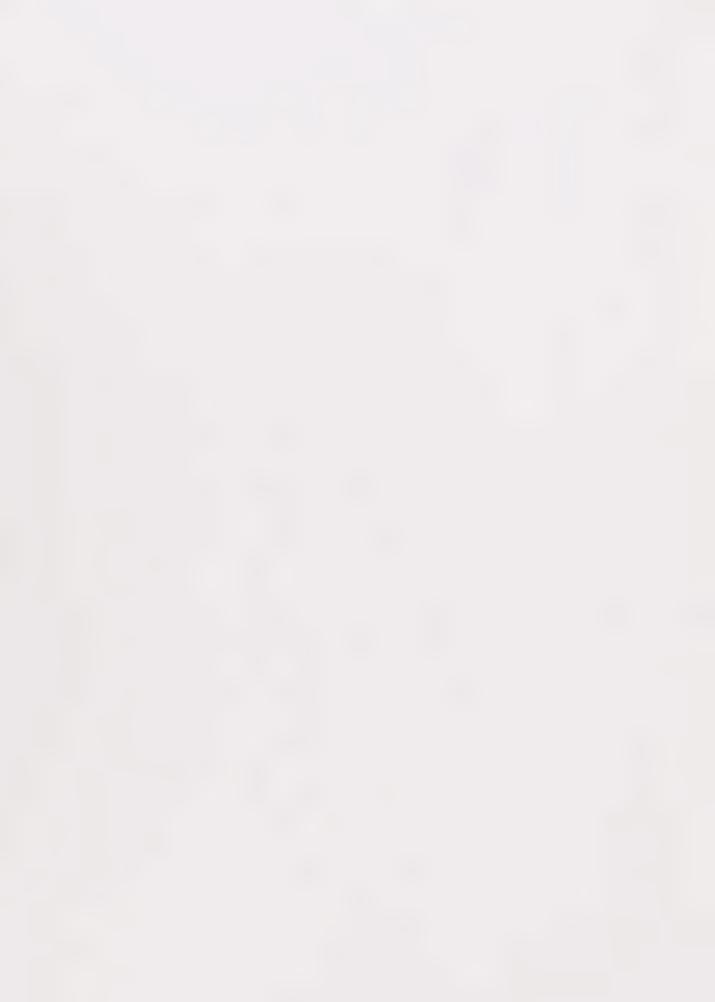
OCATION 900-2000 NOTRE DA	AME AVENUE	
RECTION BOTH	50TH PERCENTILE SPEED	
ATE APRIL 29, 1982	85TH PERCENTILE SPEED 3/	
A Y THURSDAY	10 MPH PACE SPEED 20.	-30
LUE 1230-1335	PERCENT IN PACE SPEED 74.	80
25	RANGE OF SPEEDS 15-	42
OSTED SPEED LIMIT	SKEWNESS INDEX 1.00	
TREET WIDTH	ANALYSIS BY ALPRICAGE	V
BSERVER J. SNODGRASS / N. BRICHE CO.	ANALYSIS BY MERICHACE	PER- ACCUM
	VEHICLES TE ANNO	CENT PERCENT
5 10 15 20	0 25 30 33 40 14	
7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
6		
5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
3		0.81 10000
2 X		
9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		
8		
7		1.63 98.37
6 XX 5 XXX		2.44 95.93
2 00		1.63 94.30
4 XX 3 XXX	3 5	4.07 87.79
2 KKKKK	111111111111111111111111111111111111111	4.07 83.72
	$\frac{1}{4}$	3.25 80.47
0 8888		7.32 73.15
9 XXXXXXXXXX		5.69 67.46
9 X X X X X X X X X X X X X X X X X X X	1111118	6.50 60.96
7 XXXXXXX	┇┊┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋	8.94 52.02
		8.94 43.08
5 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		8.94 34.14
4 XXXXXXXX	8	6.50 27LH
3 XXXXXXX		8.94 18.70
2 XXXXXXXXXXX		4.88 13.82
	11111116	4.88 8.94
O KXXXXX	1 3	2.44 6.50
		0.81 5.69
18 X X X X X X X X X X X X X X X X X X X	4	3.25 2.44
8		0.81 1.63
16		0.BI 0.82

- 1. ACCIDENT RATE = 9.09 MVM
- 2. ADT = 2,500

EMARKS

- 3. WINDING, UPGRADE/DOWNGRADE WITH STOP SIGNS AND LIMITED SIGHT DISTANCES
- 4. RESIDENTIAL WITH ONE SCHOOL

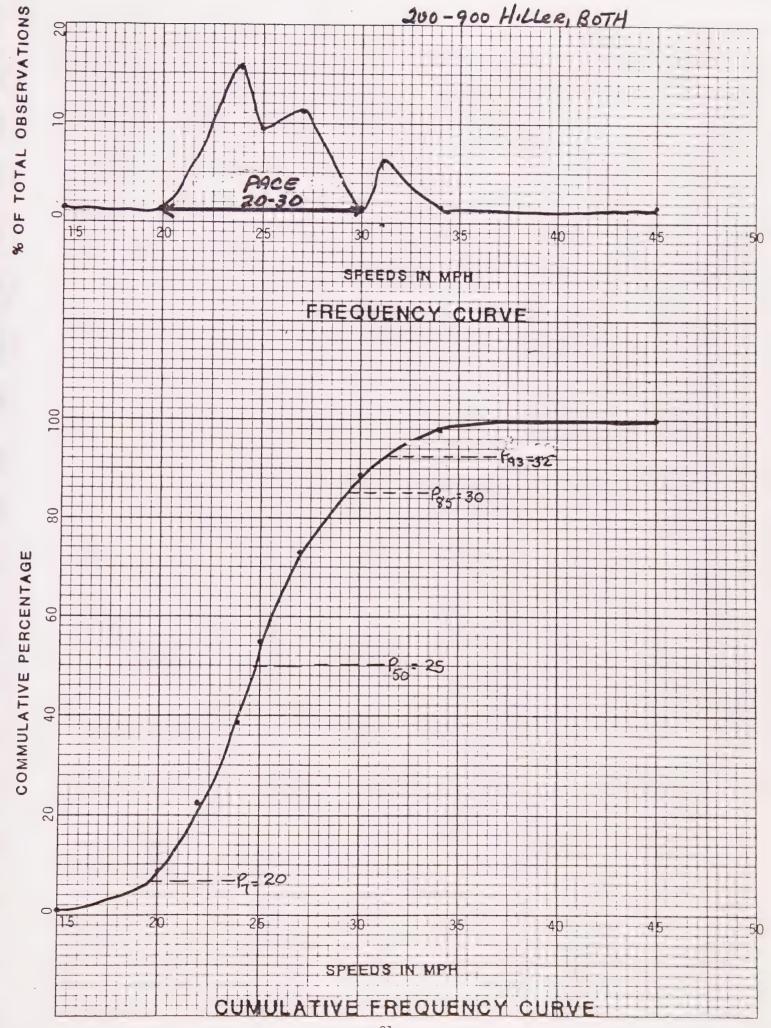


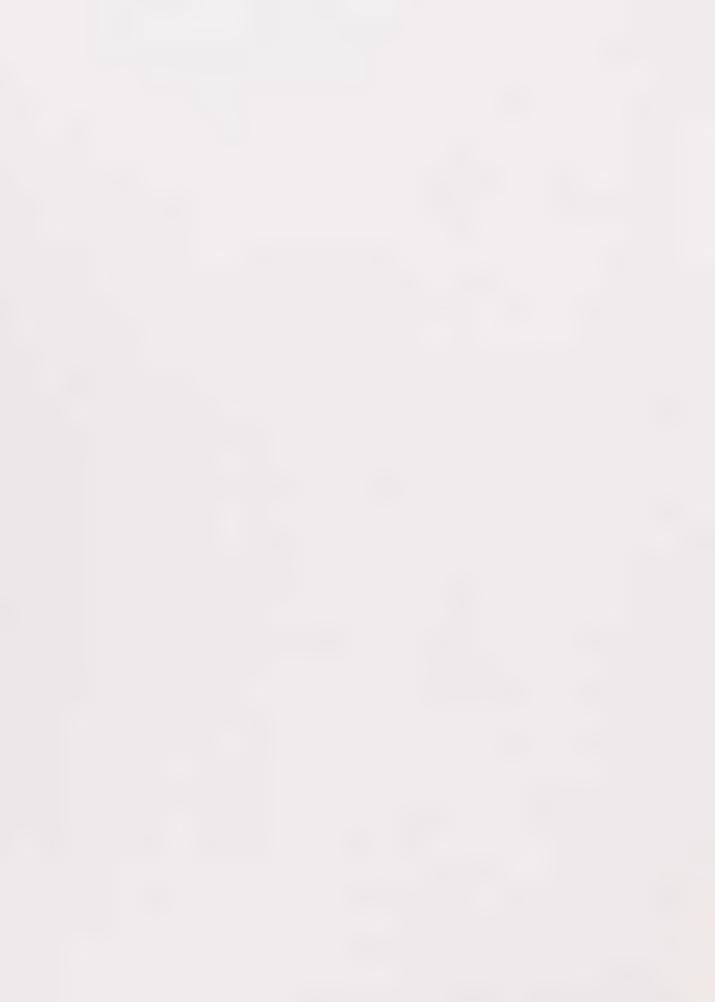


	•	
LOCATION 200-900 HILLER SE		
DIRECTION BOTH	50TH PERCENTILE SPEED	25
DATE APRIL 28, 1982	ASTH PERCENTILE SPEED	30
LUM COURSE	10 MDH DAGE SPEED	20-20
DAY WEDSENDAY	10 MPH PACE SPEED	20-30
TIME 1450-1510	PERCENT IN PACE SPEED	80.95
OSTED SPEED LIMIT 25	DANCE OF SPEEDS	15-45
POSTED SPEED LIMIT	MANGE OF SPEEDS	1.17
STREET WIDTH 37'	SKEWNESS INDEX	4177
DBSERVER J. Swodgrass / N. BRICHACEK	ANALYSIS BY N. BRI	HACEK
NUMBER OF	VEHICLES 20 25 30 35	40 NO CENT PERCENT
48		
47		
36 45 X		1 1.59 100.00
45 X 44 43 42		
43		+++
32	╀┼┼┼╂┼┼┼╂┼┼┼┼┼┼	
41 + + + + + + + + + + + + + + + + + + +		
40		
38		
37		
36		1 1.59 98.41
39 38 37 36 35 34 33 32 × 31 × × ×		1 11.3 1 10.41
33	┸	1 1.59 9682
32		4 6.35 90.47
30 8		1 1.59 88.88
29		2 3.17 84.12
30 × 29 × 28 × 20 × 20 × 20 × 20 × 20 × 20 × 20		7 11.11 73.01
		5 7.94 65.07
25 22222		10 IS 87 39.68
25 XXXXX 24 XXXXXX		10 IS.87 39.68 6 9.52 30.16
23 XXXXX		5 7.94 22.22
25 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		7 11.11 11.11
20 2		1 1.59 9.52
19		1 1.59 7.93
18 KX		1 1.59 3.17
17 × 11 11 11 11 11 11 11 11 11 11 11 11 1		
16 15 X		1 1.59 1.58
REMARKS		63
Linaities		

- 1. ACCIDENT RATE = 3.50 MVM
- 2. ADT = 5,500
- 3. RESIDENTIAL WITH ONE SCHOOL





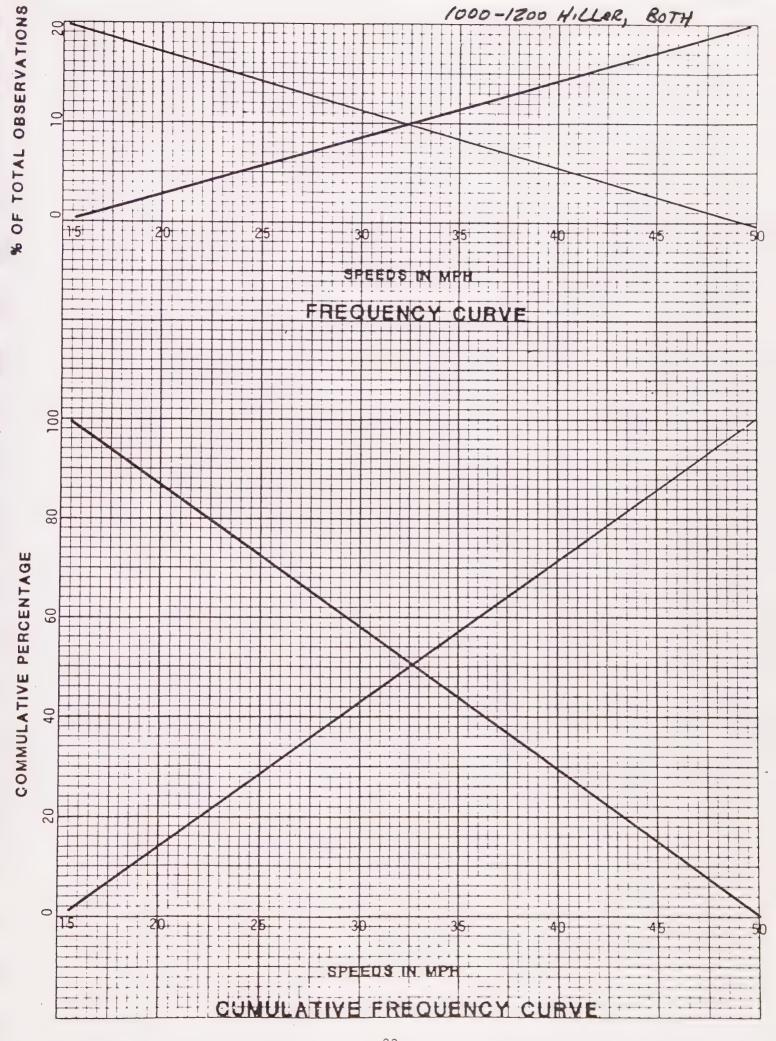


LOCATION 1000-1200 HILLER St.	
DIRECTION BOTH	50TH PERCENTILE SPEED
DATE	85TH PERCENTILE SPEED
DAY	O MPH PACE SPEED
	PERCENT IN PACE SPEED
TIME	PERCENT IN PACE SPEED
POSTED SPEED LIMIT	RANGE OF SPEEDS
STREET WIDTH	SKEWNESS INDEX
OBSERVER J. SNOOGPASS / N. BRICHACK	ANALYSIS BY N. BRICHACEK
AUIMPED OF	VEHICLES TOTL PER- ACCUM
	25 30 35 40 NO CENT PERCEN
49	
48 47	
46	
45	
45 44 43 42 41 40	+++++++++++++++++++++++++++++++++++++++
43	
92	
40	
39	
39 38 37 36 35 34 33	
36	
35	
34	
33	
32	
30	
29	
28	
30 29 28 27 26	
25	
25 24 23	
23	
22	
20	
19	
18	
17	
15	

1. OMITTED DUE TO HOMEVIEW GATE (NO THRU STREET)

REMARKS



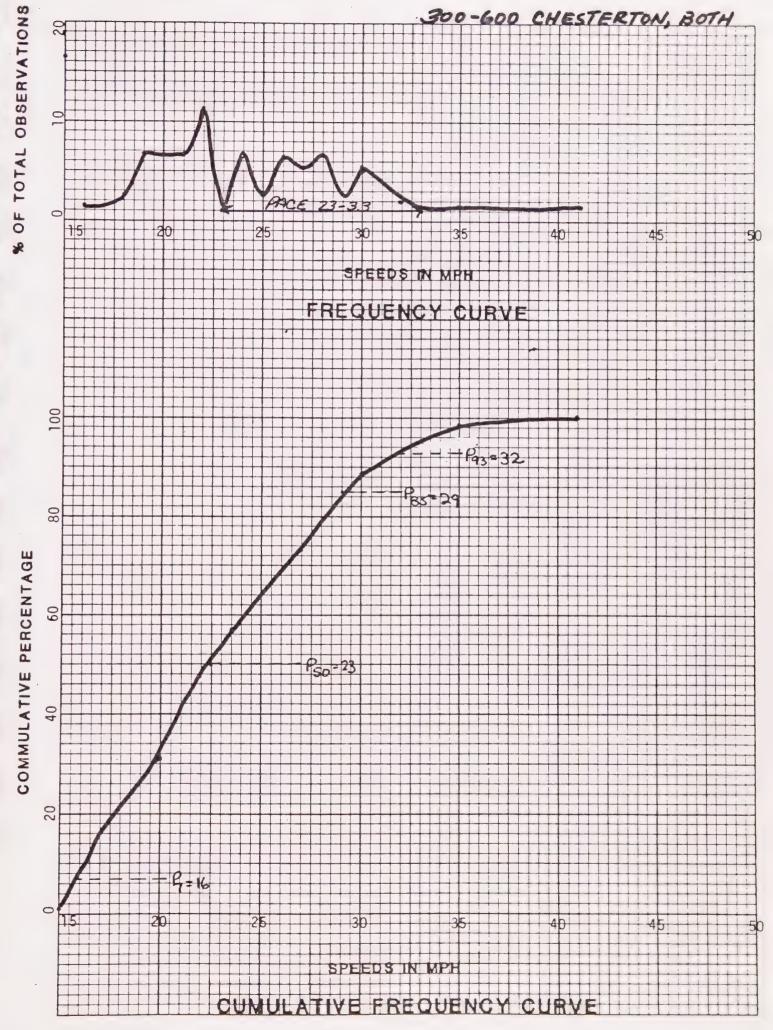




LOCAT	ION_	3	00.	-60	20	C	HE	57	ER	TO	N	AV	EN	UE	-							
DIRECT																						
DATE																						
DAY			, -																			
TIM																				41.67		
POSTE	SP	EED	LIA	AIT_		25			_	R	ANG	E	OF	SP	EEC	S_				5-4		
STREE	T W	IDT	Ή			30	-			S	KEV	NNE	ESS	11	NDE	x_				1.12		
OBSER	VER	J-SNI	009r	ASS.	/N.	BR	ICHA	CEI	7	A	NA	LY	SIS	B'	Y		N.	BR	CHA	CEK		
																						ACCUM
PEED		5		10	NUI	MBE	15		20)	VEH	25	5		30		3.	5	40			PERCENT
19.				II	II	\prod	\Box	II	II	T			H	\prod			+	++	++			
48			++	++	++	++	++	++	++	+	++	+	++	++	++							
46				++					II													
45							11		\Box		Ш	\sqcup	+	+		++				-		
44				++	++	++	++	++	+1	+	++	++	+-	++		++		++	++			
43	++			++	+-	++	++	++	+1	+	++	++	11	11	+							
41 X							11		口				T							1	1.39	100.00
40						\Box		+	++	\perp	-	++	++	++	++		+		++	-		
40 39 38 37	+			++	++	+-+	++	++	+	+	+-+-	++	++	+	-1-	++	+-		++	1		
37	++			++	++	++	++	++	+1			\Box										
36						\Box	\Box				\Box	11	++	+			-			+	1.39	98.61
3.6 3.5 × 3.4 × 3.3 ×				++	++	++	++		+		++	++	++	+						+ <i>i</i>	1.39	97.22
34 3				++	++	++	++	++	+1	+	++	+	++								1.39	95.83
32				++		\top						口									1.20	0.1.11.1
32. 31 ×				\Box		\prod	\Box	\perp			++	+					-			4	1.39 5.56	88.88
30	$\times\!\!\times\!\!\times\!\!\times$			44	+	++	11	+			++	++		-			+			2	2.78	
29	X			++	++	++		++	+		++	+-	++	-			-			5	694	
28 X 27 X 26 X	305	X		++	+-+	++	-++	++	+		+-+	+-1	-							4	5.56	
36			+++	++	++	-}-+	++	++			++									5	6.94	66.66
25 X				++	11	++					11									12	12.78	63.88
34 0	QVV		1 1 1	++		++														5	4.94	56.94
23 2	XXX																	1		1	1.39	55.55
22 X	XXX	XX	XX			\Box						\perp			-	-	-	1		8	11.11	44.44
24 X 23 X 22 X 21 X	XXX	X			11	+	\dashv	+		-	+	+			++	-		++		5	6.94	37.50
20 X		X			11	$\downarrow \downarrow$	\bot	11		1	+			-	++-	-		++-		5	6.94	30.56
19 X	XXX	X_	111	++	++	++				+	++				++	++	-	1	+ + +	5	2.78	20.84
18 X	X	-	111	++	++	++				+	++	+			+-	+	-	1		17	1.39	19.45
	++	+	+++	++	++	++		++		+	++	+			+						1.39	18.06
16 X		1	6262	UV	200	++		-		1	1						1.			12	111-67	139

- 1. ACCIDENT RATES = 0/YR
- 2. RESIDENTIAL





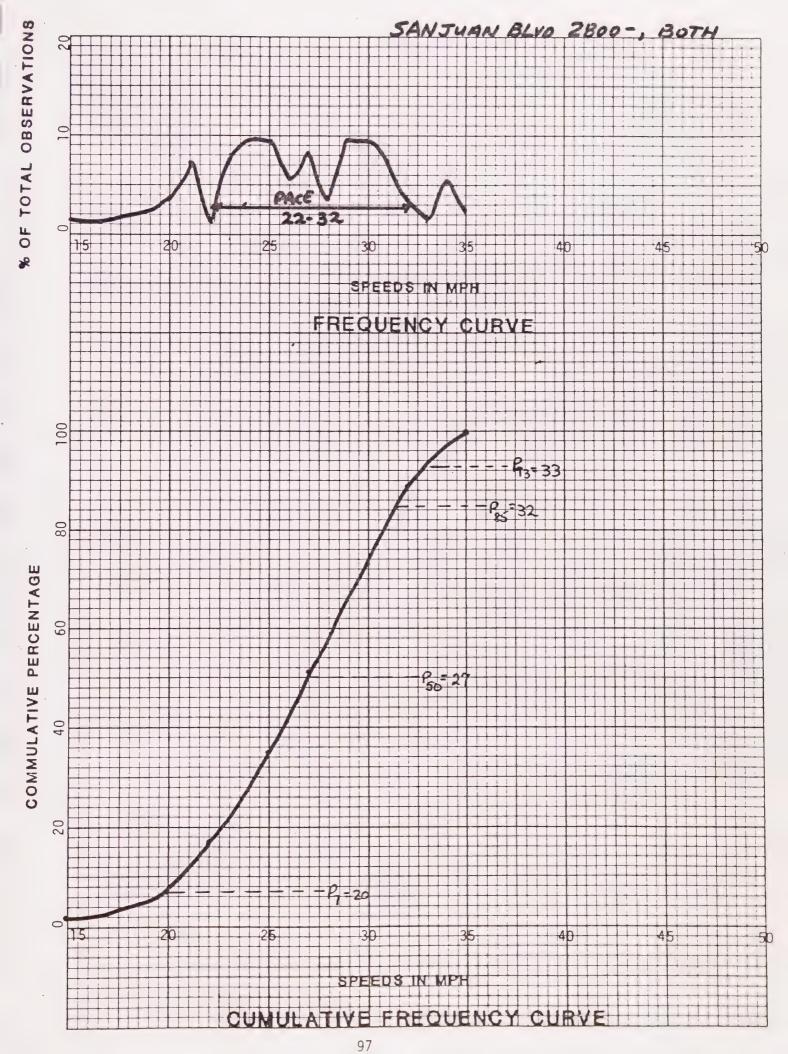
OCATION SAN JUAN BOULEVARD,	2800-							
PRECTION BOTH	SOTH PERCENTILE SPEED	27						
ATE APRIL 29, 1982	85TH PERCENTILE SPEED	32						
THIS DAY	10 MPH PACE SPEED 22-32							
A Y THURSDAY	O WIFT PACE SPEED	76.00						
I ME 0950-1055	PERCENT IN PACE SPEED	15.00						
OSTED SPEED LIMIT 25	RANGE OF SPEEDS	15-35						
STREET WIDTH 24'	SKEWNESS INDEX	0.92						
BSERVER J. SNodgrass N. BRICHACEK	ANALYSIS BY N. BRICH	ACEK						
		TOTU PER- ACCUM						
EED NUMBER OF	VEHICLES 25 30 35	40 NO CENT PERCENT						
9 1 1 1 1 1 1 1 1 1 1 1	25 30 35							
8								
3 <i>7</i>								
36								
45								
42								
41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
40								
39								
36		2 2.38 100.00						
35 XX		5 5.95 94.05						
4 XXXX		1 1.19 92.86						
33		3 3.57 89.29						
32 853		6 7.14 82.15						
2 COCCCCV		8 9.52 72.63						
30 6000000		8 9.52 63.11						
29 80000000		3 3.57 59.54						
3° 000 000 000 000 000 000 000 000 000 0		7 8.33 51.21						
26 22 22 2		5 5.95 45.26						
25 KXXXXXXX		8 9.52 35.74 8 9.62 26.22						
24 XXXXXXX		16 7.14 19.08						
23 XXXXX		1 1.19 17.89						
22		6 7.14 10.75						
21 XXXXX		3 3.57 7.18						
90 39 38 37 36 35 34 34 32 32 31 32 32 31 32 32 31 32 32 33 32 34 34 34 35 36 36 37 38 39 30 30 30 30 30 30 30 30 30 30		2 2.38 4.80						
19 XX								
18 17 ×		1 1.19 3.61						
16		1 1.19 2.42						
15 X		84						

- 1. ACCIDENT RATE = 8.56 MVM
- 2. ADT = 1,000

REMARKS

- 3. UPGRADE/DOWNGRADE WITH LIMITED SIGHT DISTANCES
- 4. RESIDENTIAL



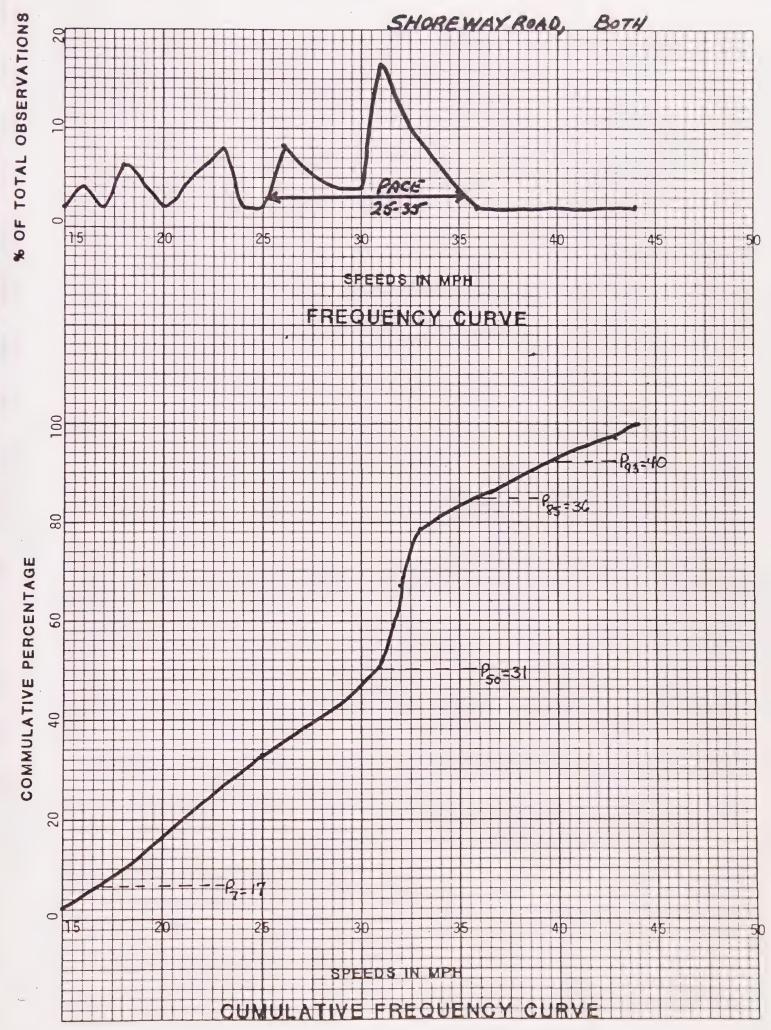


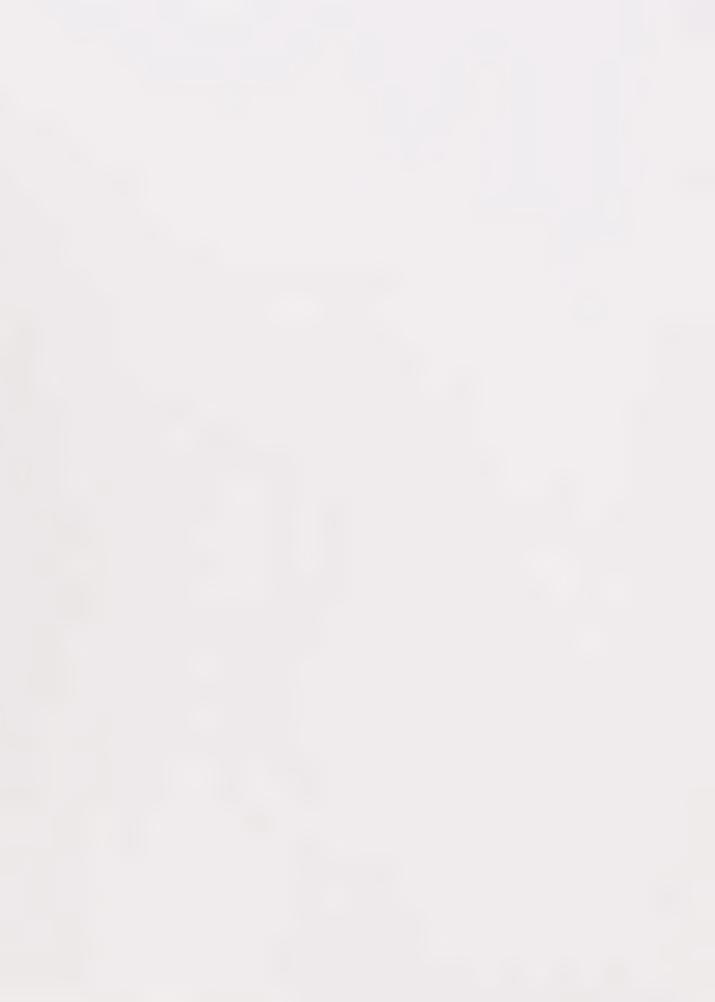


OCATION SHOREWAY ROAD, WITHIN CITY LIMITS			
DIRECTION BOTH SOTH PERCENTILE SPEED	31		
ATE APRIL 28, 1982 BOTH PERCENTILE SPEED	36		
A Y WEDSENDAY 10 MPH PACE SPEED	25	-35	
TIME 1530-1545 PERCENT IN PACE SPEED			
POSTED SPEED LIMIT 35 RANGE OF SPEEDS			
OSTED SPEED LIMIT 33 RANGE OF SPEEDS	46	10	
STREET WIDTH 22' SKEWNESS INDEX	0.	0	
OBSERVER J. SNOOT PRICHACEL ANALYSIS BY N. BRICHAC	EK		
	TOTL	PER-	ACCUM
EED NUMBER OF VEHICLES 30 35 40	NO	CENT	PERCENT
8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
46			
45		2.04	100.00
43 🗶	i	2.04	97.96
43 🗡			
	1	2.04	95.92
40 🗙	2	2.04	93.88 89.80
42 41 × 40 × 39 × 36 × 36 × 37 × 36 × 37 × 36 × 37 × 38 × 37 × 38 × 37 × 38 × 37 × 38 × 37 × 38 × 37 × 38 × 38 × 37 × 38 × 37 × 38 × 38 × 37 × 38 × 38 × 38 × 38 × 38 × 38 × 38 × 38	Ī	2.04	87.76
	1,	2.04	85.72
36	1	2.04	83.12
35	12.	4.08	81.64
34 🗙		2.04	79-60
33 32 31 31 31	8	16.33	67.36 51.03
31. XXXXXX		4.08	46.95
30 XX 29 XX		4.08	42.87
	-	-	
28 27 26 XXX	4	8-16	34.71
26 ** * *	11	2.04	32.67
25 X		2.04	
24 × 23 ×××	4	B. lb	22.47
	2	4.08	18.39
21 XX 20 X	1	2.04	16.35
24 X X X X X 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
	3	6.12	10.23
18 XXX	1 2	4.08	8.19
16 🗶 🗙	11	2.04	2.07
15 🗙	49		
EMARKS			

- 1. ACCIDENT RATE = 2.75/yR
- 2. WINDING WITH GOOD SIGHT DISTANCES
- 3. BUSINESS WITH HOLIDAY INN ON CURVE



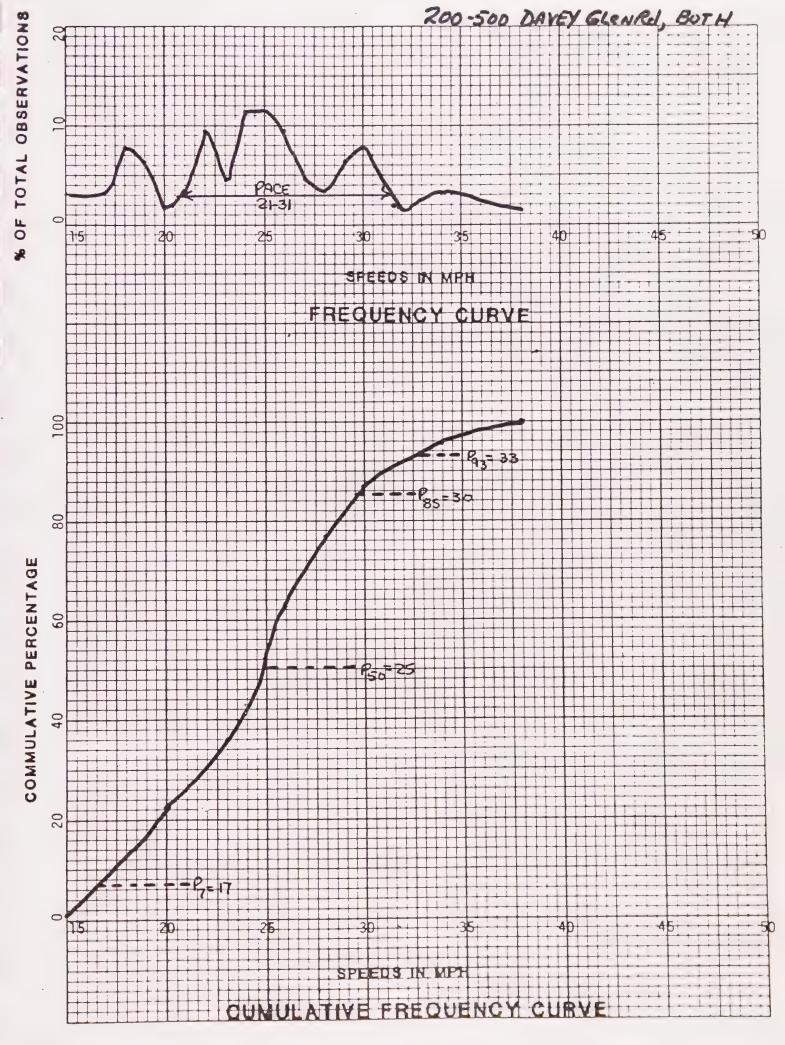




OCATION 200-500 DAVEY GLEN Rd		
DIRECTION BOTH SOTH PERCENTILE SPEED	25	
DATE APRIL 28, 1982 BOTH PERCENTILE SPEED 3	30	
DAY WEDSENDAY IO MPH PACE SPEED 2	21-21	-
TIME 1320-1420 PERCENT IN PACE SPEED		
POSTED SPEED LIMIT 25 RANGE OF SPEEDS	15-38	
STREET WIDTH 38' SKEWNESS INDEX	1.00	
DBSERVER J. SHOOD TREE N. BRICHACEK ANALYSIS BY N. BRICHACE	EV	
DBSERVER 3: SNOOTH 185 N. BRICHACE ANALYSIS BY NO. BRICHACE		
NUMBER OF VEHICLES	OTL PER-	
5 10 15 20 25 30 35 40 A	TO CENT	renceim
97		
46		
43		
43 42 41		
39 38 X 37 36 35 34 X×	1 1.59	100.00
36		
334 8 8	2 3.17	96.83
	1 1.59	95.24
33 32 31 30 XXXXX 29 XXXX 28 XX 27 XX 26 XXXXX		13:31
30 XXXX	5 7.94	80.95
29 XXXX	4 635 2 3.17	77.78
28 XX	3 4.76	73.02
26 XXXXX	6 9.52	52.39
	7 11.11	41.28
24 * * * * * * * * * * * * * * * * * * *	3 4.76	3652
23 X X X 2 2 2 2 X X X X X X 2 2 2 1 X X X X	6 9.52	27.00
24 X X X X X X X 2 2 3 X X X X 2 2 2 X X X X	1 1.59	22.24
20 X	4 6.35	15.89
19 XXXX 18 XXXX	5 7.94	7.95
17 XX	2 3.17	4.78
15 XX	2 3.17	1.61
REMARKS	63	

- ACCIDENT RATE = 79.091.
- 2. ADT = 1,600
- 3. UPGRADE/DOWNGRADE
- RESIDENTIAL 4.







50TH PERCENTILE SPEED

27

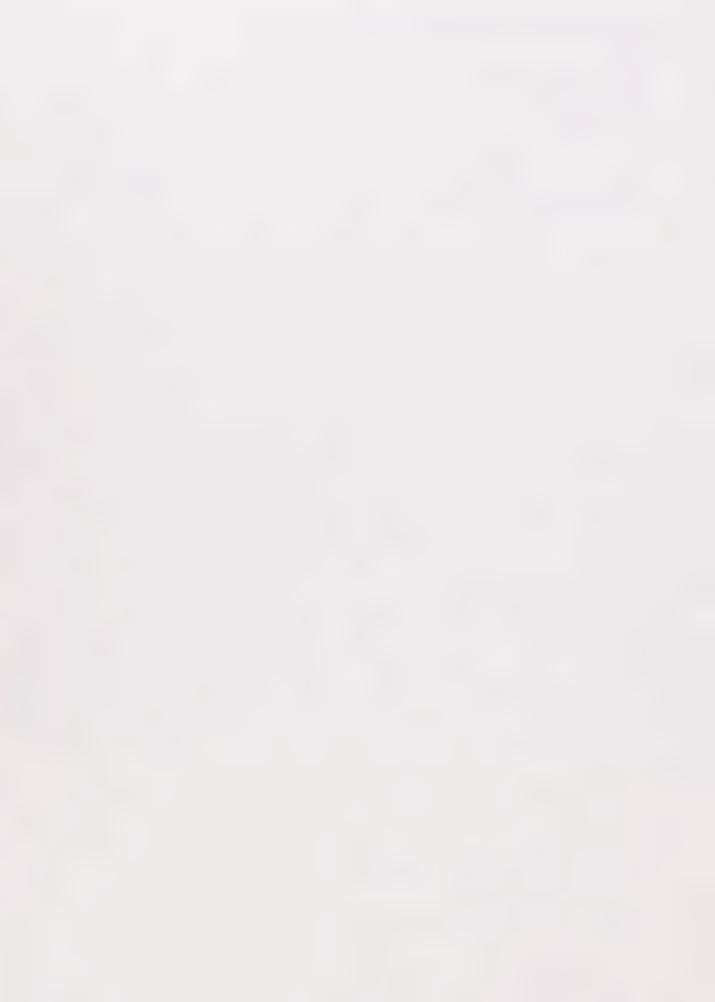
DATE	85TH PERCENTILE SPE	ED	
A Y WEDSENDAY	IO MPH PACE SPEED	23-	33
TIME 1130-1215	PERCENT IN PACE SPE	ED ldo.	67
POSTED SPEED LIMIT 25	RANGE OF SPEEDS	15-4	42
TOSTED SPEED LIMIT	ANDEY	1.12	
STREET WIDTH 33'	SKEWNESS INDEX	4\ 00iau0aa	
DBSERVER J. S Nod grass / N. BRICHACEK	ANALYSIS BY	N. PRICHACE	Κ
NUMBER OF	VEHICLES	TOTA	PER- ACCUM
EED 10 15 20		35 40 NO	CENT PERCENT
9			
18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-1+++-	
47			
46			
15 34			
43			0.71 100.00
42			0.71 99.29
4 1 X			0
40			
\$4 43 42 X 41 X 40 39 38 37 X 36 X 37 X 36 X 37 X 31 X 32 X 34 X 32 X 32 X 31 X 32 X 32 X 31 X 32 X 32 X 32 X 32 X 32 X 32 X 32 X 32			20.00
38 27 2		3	0.71 9858
3.6 XXX			2.13 96.45 7.09 89.36
35 XXXXXXXXXX			2.13 8723
34 888 2		5	3.55 8368
33 66554		4	2.84 80.84
32 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		12	8.51 72.33
3 0 V V V V X X X X X X X X X X X X X X X		7	4.96 67.37
29 222222		8	5.67 61.70
29 X X X X X X X X X X X X X X X X X X X		+++++	7.80 48.94
27 XXXXXXXXXXX		10	7.09 41.85
26 XXXXXXXXXX		16	11.35 30.50
25 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		8	5.67 24.83
24 KKKKKXX		6	4.26 20.57
23 88 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		6	4.26 16-31
24 XXXXXX 23 XXXXX 22 XXXXX 21 XXXXXX		7	4.96 11.35
20 000000000000000000000000000000000000		4	2.84 P.SI 1.42 7.04
20 888		2	11.42 17-09
19 XX XX		5	3.55 3.54
		2	0.71 1.41
16 X	┊┽┼┼┼╂┼┼┼┼┼┼┼	++++++	0.71 0.70
20 XXXX 19 XX 18 XXXX 17 XX 16 X 15 X		141	10 11 10.10
PEMARKS		771	

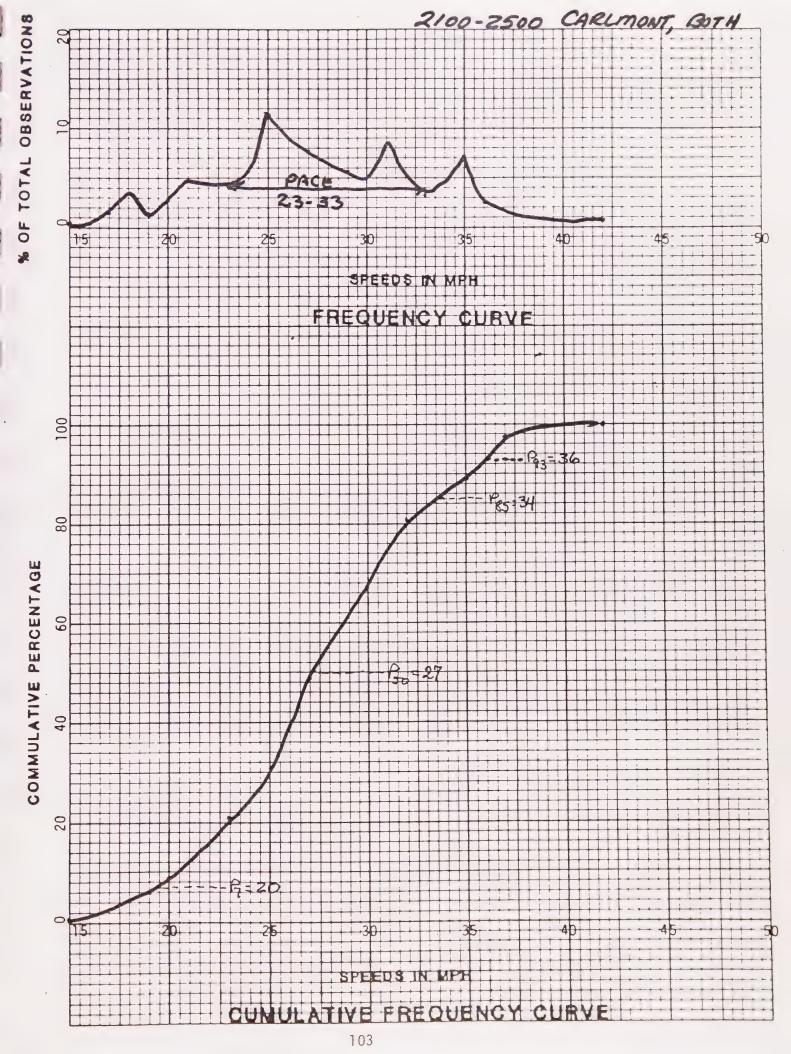
1. ACCIDENT RATE = 10.31 MVM

LOCATION 2100-2500 CARLMONT DRIVE

PIRECTION BOTH

- 2. ADT = 3,800
- 3. UPGRADE FROM ALAMEDA TO HASTINGS WITH LIMITED SIGHT DISTANCES ON CURVES
- 4. BUSINESS AND RESIDENTIAL





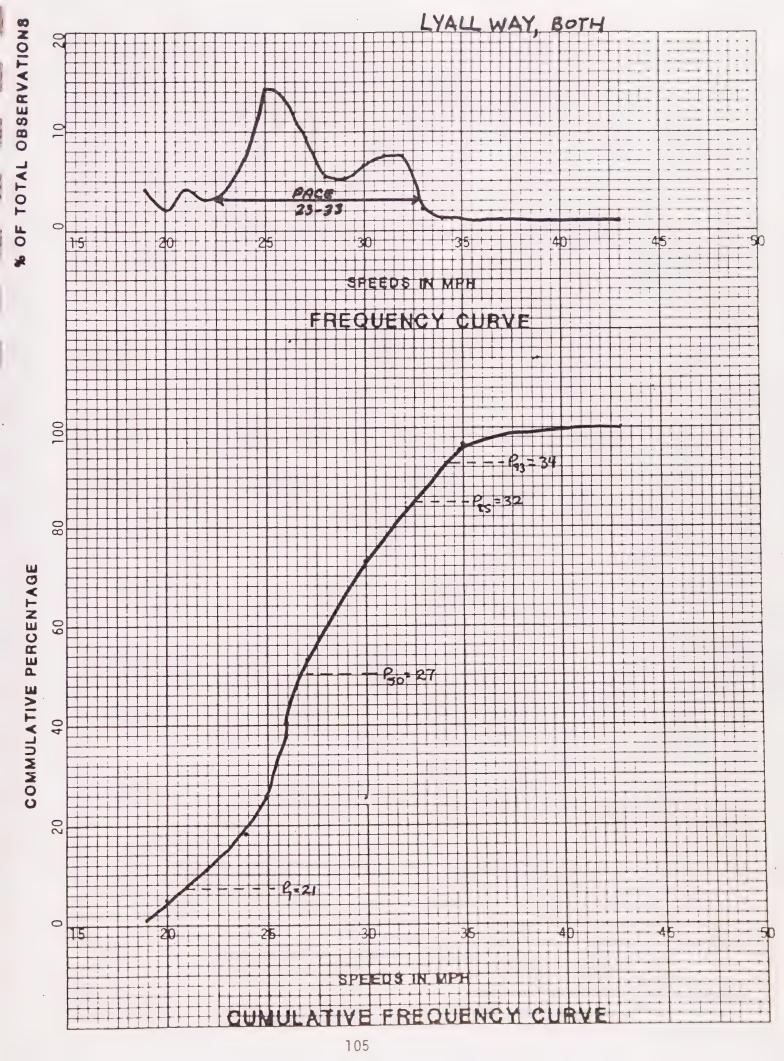


BELMONT SPOT SPEED ANALYSIS

LOCATION LYALL WAY, CONTINETALS	to RALSTON				
DIRECTION BOTH	50TH PERCENTILE SPEED 27				
DATE APRIL 28, 1982		•			
		•			
DAY WEDSENDAY	IO MPH PACE SPEED 23-33	-			
TIME 1215-1315	PERCENT IN PACE SPEED 81.44				
POSTED SPEED LIMIT 25	RANGE OF SPEEDS 19-43				
221	RANGE OF SPEEDS				
STREET WIDTH 32'		_			
DBSERVER J. SNOODYASS / N. BRICHACLE ANALYSIS BY N. BRICHACEK					
NUMBER OF	VEHICLES TOTL PER ACCUM	Ā			
EED 10 15 20		T			
18 47					
46					
45					
44	1 1.03 100.00	2			
42					
43 X 42 41					
40					
40 39 38 37 X 36 35 XX 34 X 33 XX	1 102 000				
37 X	1 1.03 98.97				
36	2 2.06 96.91				
35 XX 34 X 33 XX	1 1.03 95.88				
33 XX	2 2.06 93.82 7 7.22 8660				
32 XXXXXX 31 XXXXXX	7 7.22 79.38				
30 88888	6 619 73.19				
30 XXXXX 29 XXXX 28 XXXX 27 XXXXX	5 5.15 68.04 5 5.15 62.89				
28 555555	9 9.28 53.61				
	13 13.40 40.21	_			
25 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7 7.22 18.69				
24 ××××××	4 4,12 1457	,			
24 ×××××× 23 ×××× 22 ×××	3 3.09 11.48				
21 XXXX	4 4.12 7.36 2 2.06 5.30				
20 X X	4 412 1.18				
19 ***					
18					
16					
15 1	97				
EMARKS	• •				

- 1. ACCIDENT RATE = 6.00/YR
- 2. UPGRADE/DOWNGRADE
- RESIDENTIAL WITH SCHOOL (MERRY MOPPET) 3.





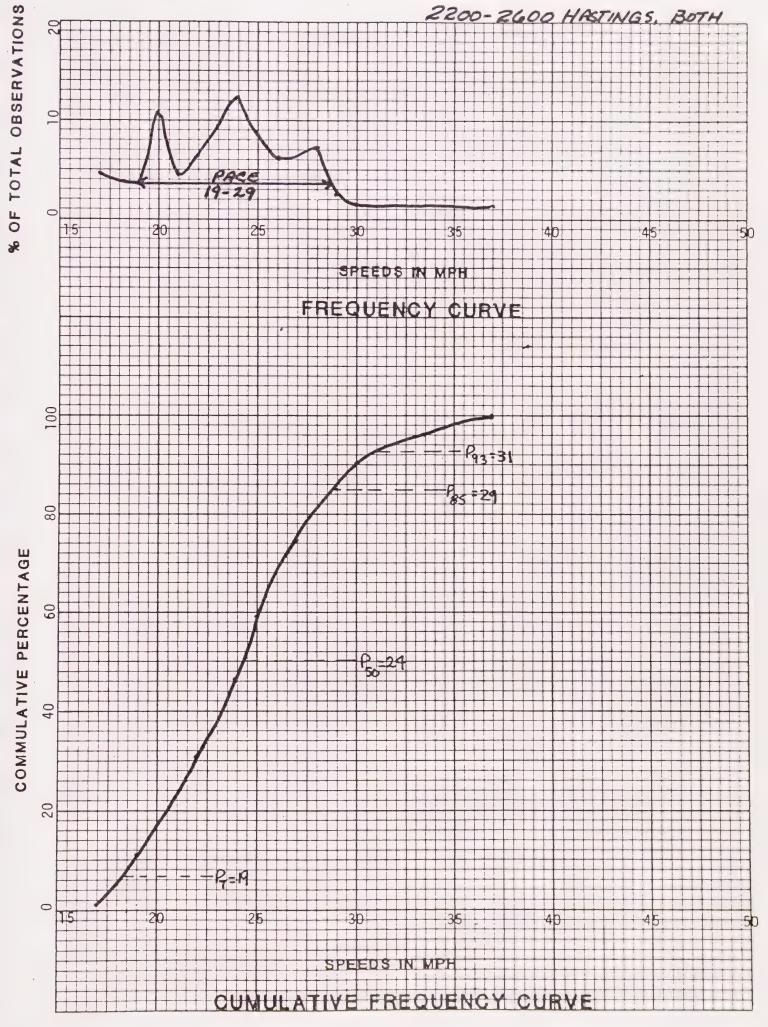


BELMONT SPOT SPEED ANALYSIS

DICATION 2200-2600 HASTIN	IGS DRIVE		
RECTION BOTH		SPEED_ Z	4
ATE APRIL 29, 1982		SPEED 2	9
AY Thursday	IO MPH PACE SPE	EED 19	-29
IME 1220-1335			
OSTED SPEED LIMIT_25	RANGE OF SPEEDS	-	37
TREET WIDTH	SKEWNESS INDEX	(77
BSERVER J. SNOOGRASS N. BRICHACEK	ANALYSIS BY	N. BRICHA	CEK
NUMBER OF			TOTH PER- ACCUM
EDD 15 10 15 20	25 30	35 40	NO CENT PERCENT
	++++++++++		
6	+++++++++		
5 4			
3			200
2			
O I I I I I I I I I I I I I I I I I I I		+++++	
9 8			1 122 100.00
7 X			1 1.22 100.00
5			
			2 244 96.34
3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2 244 93.90
			1 1.22 90.24
2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2 2.44 87.80
9 X X X X X X X X X X X X X X X X X X X		+++++	5 6.10 74.38
			5 6.10 68.28
5 KXXXXXX			11 13.41 46.33
4 8586888888			8 9.76 36.37 5 6.10 30.41
2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3		++++++	4 4.88 25.59
5 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			4 4.88 25.59 9 10.98 1461
			3 3.66 10.95 4 4.88 6.07
4			9 10.98 14.61 3 3.66 10.95 4 4.88 6.07 4 4.88 1.19
7 KXX			
6			82

- 1. ACCIDENT RATE = 2.50/YR
- 2. STEEP UPGRADE/DOWNGRADE
- 3. RESIDENTIAL







APPENDIX II INVENTORY OF ROAD CONDITIONS



DIRECTION:

East and West bound

TRAFFIC LANES:

East City Limits to 500 Block: Four (4) lanes; two (2) East bound, two (2) West bound. Opposing lanes separated by solid island. Width: approximately 13 feet per lane.

500-800 Block: Four (4) lanes; two (2) East bound, two (2) West bound. Opposing lanes separated by raised pavement markers. Width: approximately 14 feet per lane.

800-1000 Block: Five lanes; two (2) East bound, two (2) West bound, one (1) marked and designated two way left turn lane. Opposing lanes separated by raised pavement markers. Width: approximately 14 feet per lane.

1000-1300 Block: Four (4) lanes; two (2) East bound, two (2) West bound. Opposing lanes separated by raised pavement markers. Width: approximately 14 feet per lane.

1000-1900 Block: Three (3) lanes; one (1) East bound, one (1) West bound, one (1) marked and designated two way left turn lane. Width: approximately 14 feet per traffic lanes and approximately 10 feet for left turn lanes. Opposing lanes separated by raised pavement markers.

1900-2100 Block: Three (3) lanes; one (1) East bound, two (2)West bound. Opposing lanes separated by solid islands. Width: approximately 13 feet per lane.

2100-2400 Block: Four (4) lanes; two (2) East bound, two (2) West bound. Opposing lanes separated by a double-double line consisting of paint and raised pavement markers. Width: approximately 13 feet per lane.

2400-2600 Block: Four (4) lanes; two (2) East bound, two (2) West bound. Opposing lanes separated by a double-double line consisting of paint and raised pavement markers. Width: approximately 12 feet per lane.

2600-3000 Block: Four lanes; two (2) East bound, two (2) West bound. Opposing lanes separated by solid island. Width: approximately 12 feet per lane.



- EAST CITY LIMITS upgrade and downgrade. Freeway on and off ramps.
- HILLER STREET controlled intersection: traffic signals. Storage lanes: left turn; East and West bound.
- GRANADA STREET controlled intersection: two (2) way stop; North and South bound.
- FURLONG STREET controlled intersection: one (1) stop sign North bound.
- ELMER STREET controlled intersection: one (1) stop sign North bound.
- OLD COUNTY ROAD controlled intersection: traffic signals. Storage lanes-left turn; East and West bound, and right turn; West bound.
- SOUTHERN PACIFIC RIGHT-OF-WAY railroad crossing; controlled by Audible and Electronic signal device.
- EL CAMINO REAL main arterial: controlled intersection; traffic signals. Storage lanes left turn; East and West bound, and right turn; West bound.
- SIXTH AVENUE controlled intersection: traffic signals. Storage lanes left turn; East and West bound, right turn; East bound. Roadway curves to left; sight distance acceptable. Left turn storage lane for City complex. Roadway curves to right; sight distance acceptable.
- SOUTH ROAD controlled intersection: three (3) way stop; East, South and West bound. Roadway curves to right; sight distance acceptable.
- Entrance to College of Notre Dame controlled by one (1) stop sign South bound. "S" curves; sight distance acceptable.
- CHULA VISTA DRIVE controlled intersection: one (1) stop sign North bound. Storage lane left turn; West bound.
- Two (2) entrances to Notre Dame High School storage lanes; left turn, East bound.
- NOTRE DAME AVENUE controlled intersection: one (1) stop sign South bound. Storage lane left turn, East bound.
- CHEVY STREET controlled intersection: one (1) stop sign South bound. Storage lane left turn, East bound.
- AVON STREET controlled intersection: one (1) stop sign South bound. Storage lane left turn, East bound.



- MAYWOOD DRIVE controlled intersection: one (1) stop sign North bound. Storage lane left turn, West bound.
- ACADEMY AVENUE controlled intersection: one (1) stop sign South bound. One (1) marked pedestrian crossway.
- VILLA AVENUE controlled intersection: one (1) stop sign South bound. Between ACADEMY AVENUE and ALAMEDA DE LAS PULGAS is located Carlmont Shopping Center.
- ALAMEDA DE LAS PULGAS Main arterial: controlled intersection; traffic signals. Storage lanes left turn, East and West bound.
- CORONET BOULEVARD controlled intersection: one (1) stop sign South bound.
- PULLMAN AVENUE AND LYALL WAY controlled intersection: two way stop North and South bound. Storage lanes left turn, West bound. One (1) marked pedestrian crossway. "S" curve; sight distance limited.
- CIPRIANI BOULEVARD AND CONTINENTALS WAY controlled intersection: traffic signals. Storage lanes left turn, East and West bound. "S" curve; sight distance limited.
- BELMONT CANYON ROAD controlled intersection: "Right turn only"; one (1) stop sign South bound.
- DAVIS DRIVE controlled intersection: traffic signals. Storage lane left turn, West bound. DAVIS DRIVE is the entrance to a Business Complex.
- Two (2) entrances to Ralston School storage lanes; left turn West bound.
- TAHOE DRIVE controlled intersection: one (1) stop sign North bound. Storage lane; left turn, West bound.
- BELMONT CANYON ROAD controlled intersection: traffic signals. Storage lane - left turn, East bound.
- LASSEN DRIVE controlled intersection: one (1) stop sign North bound. Storage lane; left turn, West bound.
- HALLMARK DRIVE controlled intersection: traffic signals. Storage lane - left turn, West bound.



TOPOGRAPHY, cont.

BELMONT CANYON ROAD - controlled intersection: one (1) stop sign South bound. Vista Point on North side of street. "S" curve; sight distance acceptable.

CHRISTIAN DRIVE - controlled intersection: traffic signals.

Storage lane - left turn, East bound.

RALSTON AVENUE is an upgrade from ALAMEDA DE LAS PULGAS to Ralston Intermediate School.

RALSTON AVENUE is a downgrade from HALLMARK DRIVE to CHRISTIAN DRIVE.

DEVELOPMENT:

EAST CITY LIMITS to OLD COUNTY ROAD: Residential, business and residential structures, meaning apartment buildings.

OLD COUNTY ROAD to SOUTH ROAD: Business and residential structures.

SOUTH ROAD to MAYWOOD DRIVE: Residential.

MAYWOOD to PULLMAN AVENUE: Business.

PULLMAN AVENUE to CHRISTIAN DRIVE: Residential.

Pedestrian Right-of-Way:

EAST CITY LIMITS to LYALL WAY - both sides of street.

LYALL WAY to BELMONT CANYON ROAD (second crossing) - South side of street.

BELMONT CANYON ROAD to CHRISTIAN DRIVE - both sides of street.

Bicycle lane extends from SOUTH ROAD to MAYWOOD DRIVE on both sides of street.



MIDDLE ROAD 300-700 BLOCK

DIRECTION:

Both

TRAFFIC LANES:

Two (2) lanes

Opposing lanes separated by raised pavement markers

Width: approximately 24 feet

TOPOGRAPHY:

NOTRE DAME AVENUE - controlled intersection: one (1) stop sign West bound.

WILLOW LANE - controlled intersection: one (1) stop sign North bound.

SOUTH ROAD - controlled intersection: one (1) stop sign North bound. "S" curve; sight distance limited.

DAVEY GLEN - controlled intersection: one (1) stop sign South bound.

CAMINO VISTA COURT - one (1) marked pedestrian crossway.

HAINLINE DRIVE - controlled intersection: one (1) stop sign North bound. "S" curve; sight distance limited.

BARBARA LANE - one (1) marked pedestrian crossway. Roadway curves to right; sight distance acceptable.

VIRGINIA AVENUE - controlled intersection: four (4) way stop.

VIRGINIA AVENUE is the entrance to Central School.

LAUREL COURT - roadway curves to right; sight distance limited.

CYPRESS AVENUE - controlled intersection: one (1) stop sign East bound.

EL CAMINO REAL - controlled intersection: one (1) stop sign East bound.

MIDDLE ROAD is a downgrade from SOUTH ROAD to EL CAMINO REAL.

DEVELOPMENT:

Residential and residential structures; meaning apartment buildings.



OLD COUNTY ROAD 100-1300 BLOCK

DIRECTION:

North and South bound

TRAFFIC LANES:

Two (2) lanes separated by raised pavement markers Width: approximately 30 feet

TOPOGRAPHY:

STERLING VIEW AVENUE - controlled intersection: one (1) stop sign West bound.

DALE VIEW AVENUE - controlled intersection: one (1) stop sign West bound.

CREST VIEW AVENUE - controlled intersection: one (1) stop sign West bound.

MOUNTAIN VIEW AVENUE - controlled intersection: one (1) stop sign West bound.

MARINE VIEW AVENUE - controlled intersection: three (3) way stop; North, South and West bound.

MASONIC WAY - controlled intersection: one (1) stop sign West bound.

RALSTON AVENUE - main arterial: controlled intersection; traffic signals. Storage lanes: left turn - North bound, right turn - South bound.

WALTERMIRE STREET - controlled intersection: one (1) stop sign West bound.

O'NEILL AVENUE - uncontrolled intersection; sight distance acceptable.

HARBOR BOULEVARD - controlled intersection; traffic signals. Storage lanes: right turn - South bound.

DEVELOPMENT:

North of RALSTON AVENUE: Business and residential structures, meaning apartment buildings.

South of RALSTON AVENUE: Residential and business.



ALAMEDA DE LAS PULGAS 100-1200 BLOCK

DIRECTION:

North and South bound

TRAFFIC LANES:

FOREST AVENUE to RALSTON AVENUE: two (2) lanes separated by raised pavement markers.

RALSTON AVENUE to CARLMONT DRIVE: four (4) lanes separated by raised pavement markers and paint.

CARLMONT DRIVE to SOUTH CITY LIMITS: three (3) lanes; two (2) North bound, one (1) South bound. Separated by raised pavement markers and paint.

Width: approximately 18 feet

TOPOGRAPHY:

FOREST AVENUE - controlled intersection: one (1) stop sign West bound.

CIPRIANI BOULEVARD - controlled intersection: one(1) stop sign East bound.

MONROE AVENUE - controlled intersection: four (4) way stop. Downgrade; sight distance limited.

LYONS AVENUE - controlled intersection: two (2) way stop, East and West bound. Roadway curves to right; sight distance acceptable.

NOTRE DAME AVENUE - controlled intersection: one (1) stop sign West bound.

CORONET BOULEVARD - controlled intersection: four (4) way stop.

Roadway curves to right; sight distance acceptable.

BELLE MONTI AVENUE - controlled intersection: one (1) stop sign West bound.

SHARON AVENUE - controlled intersection: one (1) stop sign East bound.

MEZES AVENUE - controlled intersection: three (3) way stop; North, South and West bound.

ARBOR AVENUE - controlled intersection: three way stop; North, South and West bound. Upgrade; roadway curves to right, sight distance limited.

COVINGTON ROAD - controlled intersection: one (1) stop sign East bound. Downgrade; roadway curves to right, sight distance limited.



ALAMEDA DE LAS PULGAS 100-1200 BLOCK, cont.

- ARTHUR AVENUE controlled intersection: one (1) stop sign East bound.
- ALDEN STREET controlled intersection: three (3) way stop; North, South and West bound. Steep downgrade; sight distance limited.
- COVINGTON ROAD controlled intersection: one (1) stop sign East bound.
- RALSTON AVENUE main arterial: controlled intersection; traffic signals. Traffic lanes characteristic change: four (4) lanes; two (2) North bound, two (2) South bound.

Between RALSTON AVENUE and CARLMONT DRIVE is Carlmont Shopping Center.

CARLMONT DRIVE - controlled intersection: three (3) way stop;
North, East and South bound. Roadway curves to
left; sight distance acceptable.

Between CARLMONT DRIVE and GARDEN COURT is the Belmont Branch of the San Mateo County Library and Belameda Park.

GARDEN COURT - controlled intersection: one (1) stop sign East bound.

VALERGA DRIVE - controlled intersection: one (1) stop sign East bound.

EL VERANO WAY - controlled intersection: four (4) way stop.

CHULA VISTA DRIVE - controlled intersection: four (4) way stop.

EL VERANO WAY and CHULA VISTA DRIVE are both entrances to Carlmont High School.

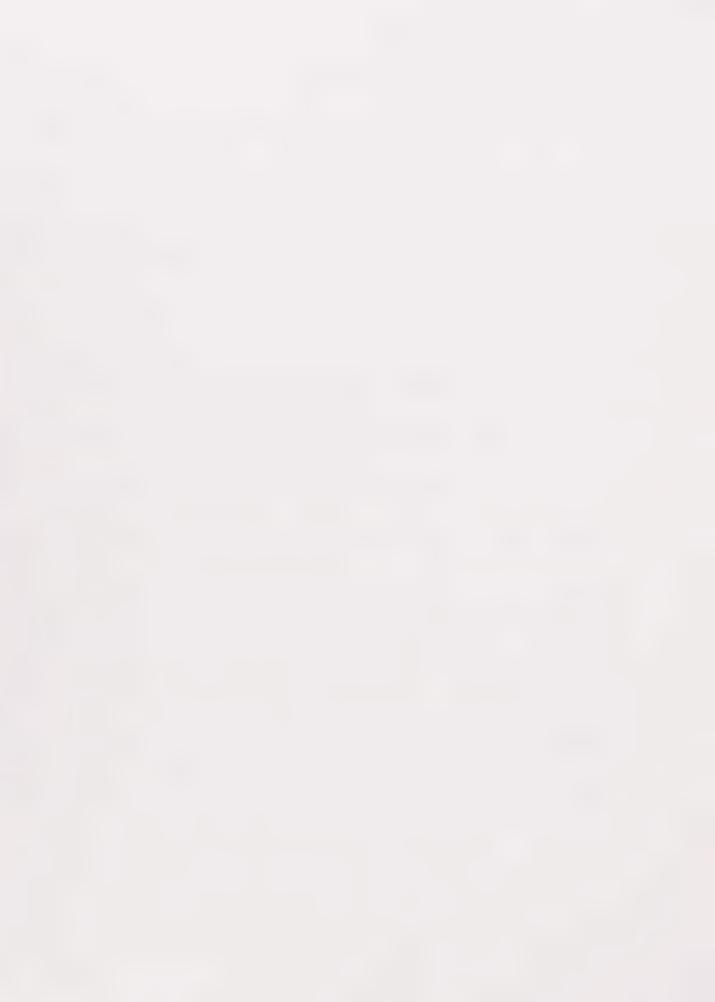
DEVELOPMENT:

FOREST AVENUE to RALSTON AVENUE: Residential.

RALSTON AVENUE to CARLMONT DRIVE: Business.

CARLMONT DRIVE to SOUTH CITY LIMITS: Residential and residential structures; meaning apartment buildings.

Pedestrian right-of-way on both sides of street from CIPRIANI BOULEVARD to SOUTH CITY LIMITS.



HALLMARK DRIVE 2400-2900 BLOCK

DIRECTION:

North and South

TRAFFIC LANES:

Two (2) lanes

Width: 2400-2700 block approximately 37 feet 2700-2900 block approximately 48 feet

TOPOGRAPHY:

BARRICADE

Roadway is separated by banked island; South bound traffic has up and down grade, North bound lane is level. Roadway (both North and South bound) curves to left; sight distance limited.

LEIGH WAY - "S" curve; downgrade, sight distance limited.

WAKEFIELD DRIVE - uncontrolled intersection; sight distance acceptable.

PADDINGTON COURT - roadway curves to right; downgrade, sight distance acceptable.

SOHO CIRCLE - uncontrolled intersection; sight distance acceptable.

WATERLOO COURT - roadway curves right; downgrade, sight distance acceptable.

COMSTOCK CIRCLE - controlled intersection: four (4) way stop.

Roadway curves to left, sight distance acceptable. Roadway curves to right; downgrade, sight distance limited.

WEMBERLY DRIVE - controlled intersection: four (4) way stop.
Roadway curves to left, sight distance acceptable.

COMSTOCK CIRCLE - roadway curves to right, sight distance acceptable.

LAKE ROAD - upgrade.

BENSON WAY - controlled intersection: one (1) stop sign East bound. Upgrade. BENSON WAY is the access road to Fox School.

RALSTON AVENUE - major arterial: controlled intersection traffic signals. Storage lane: left turn North bound.

DEVELOPMENT:

Residential. Pedestrian right-of-way on both sides of street from BARRICADE to RALSTON AVENUE.



ELMER STREET 1000-1200 BLOCK

DIRECTION:

North and South bound

TRAFFIC LANES:

Two (2) lanes

Width: approximately 25 feet

TOPOGRAPHY:

RALSTON AVENUE - controlled intersection: one (1) stop sign

North bound.

WALTERMIRE - uncontrolled intersection; sight distance accept-

able.

O'NEILL AVENUE - controlled intersection: four (4) way stop.

DEVELOPMENT:

East side: residential.

West side: business, residential structures; meaning apartment

buildings, and residential.



DIRECTION:

North and South

TRAFFIC LANES:

Two (2) lanes

Width: approximately 23 feet

TOPOGRAPHY:

- ALAMEDA DE LAS PULGAS controlled intersection: four (4) way stop. Upgrade. Roadway turns to right; sight distance limited. Roadway turns to right; sight distance limited.
- SEMERIA AVENUE controlled intersection: one (1) stop sign North bound.
- FOREST AVENUE controlled intersection: one (1) stop sign South bound. Roadway turns to left; sight distance limited.
- WOOSTER AVENUE controlled intersection: three (3) way stop; North, East and South bound. Roadway turns to left; sight distance limited.
- BUENA VISTA AVENUE controlled intersection: one (1) stop sign West bound. Roadway turns to right; sight distance limited.
- NEWLANDS AVENUE controlled intersection: four (4) way stop.
- LINCOLN AVENUE controlled intersection: one (1) stop sign East bound. Roadway turns to left; sight distance limited.
- BUENA VISTA AVENUE controlled intersection: four (4) way stop.

 BUENA VISTA AVENUE is the entrance to Ciprian School. Roadway curves to right; sight distance limited. Roadway curves to left; sight distance acceptable.
- CARMELITA AVENUE controlled intersection: two (2) way stop;
 East and West bound. One marked pedestrian
 crossway. Roadway curves to right; sight
 distance acceptable.
- PONCE AVENUE controlled intersection: four (4) way stop.

 Roadway curves to left; sight distance acceptable.
- MONSERAT AVENUE controlled intersection: one (1) stop sign East bound.
- SAN JUAN BOULEVARD controlled intersection: one (1) stop sign East bound.



CIPRIANI BOULEVARD 2100-2600 BLOCK, cont.

PRINDLE ROAD - controlled intersection: one (1) stop sign West bound.

RALSTON AVENUE - main arterial: controlled intersection; traffic signals. Storage lane: left turn South bound.

DEVELOPMENT:
Residential.



RUTH AVENUE 800-900 BLOCK

DIRECTION:

East and West bound

TRAFFIC LANES:

Two (2) lanes

Width: approximately 23 feet

TOPOGRAPHY:

EL CAMINO REAL - controlled intersection: one (1) stop sign East bound.

MALCOLM AVENUE - controlled intersection: two (2) way stop North and South bound. Roadway curves to left; sight distance acceptable.

NORTH ROAD - controlled intersection: one (1) stop sign South bound.

RUTH AVENUE is an upgrade from EL CAMINO REAL to NORTH ROAD.

DEVELOPMENT:

Residential.



EL VERANO WAY 1800-1900 BLOCK

DIRECTION:

East and West bound

TRAFFIC LANES:

Two (2) lanes

Width: approximately 25 feet

TOPOGRAPHY:

FERNWOOD WAY - controlled intersection: one (1) stop sign East bound.

ALOMAR WAY - roadway curves to right; sight distance limited.

LADERA WAY and VALDEZ AVENUE - controlled intersection: two (2) way stop North and South bound.

VALDEZ AVENUE - roadway curves to left; sight distance acceptable.

ALAMEDA DE LAS PULGAS - controlled intersection: four (4) way stop.

EL VERANO WAY is a downgrade from ALOMAR WAY to ALAMEDA DE LAS PULGAS.

DEVELOPMENT:

Residential.



SOUTH ROAD 300-900 BLOCK

DIRECTION:

North and South bound

TRAFFIC LANES:

Two (2) lanes

Opposing lanes separated by raised pavement markers

Width: approximately 20 feet

TOPOGRAPHY:

MIDDLE ROAD - controlled intersection: one (1) stop sign North bound.

DEBBIE LANE - "S" curve, sight distance limited.

HAINLINE DRIVE - roadway curves to right, sight distance acceptable.

KORBEL WAY - uncontrolled intersection; sight distance acceptable.

VANNIER DRIVE - roadway curves to left, sight distance limited.

COLLEGE VIEW WAY - controlled intersection: one (1) stop sign South bound.

VANNIER DRIVE - roadway curves to right, sight distance limited.

SOUTHVIEW COURT - controlled intersection: one (1) stop sign South bound.

MIRAMAR TERRACE - controlled intersection: one (1) stop sign East bound.

HOLLY ROAD - controlled intersection: four (4) way stop. "S" curve, sight distance limited.

HOLLY ROAD - controlled intersection: two (2) way stop; South and West bound.

RALSTON AVENUE - main arterial: controlled intersection; three (3) way stop, East, South and West bound.

SOUTH ROAD is a downgrade from VANNIER DRIVE to RALSTON AVENUE.

DEVELOPMENT:

Residential.

CHULA VISTA DRIVE 1000-1900 BLOCK

DIRECTION:

East and West bound

TRAFFIC LANES:

Two (2) lanes

Width: approximately 25 feet

RALSTON AVENUE to ESCONDIDO WAY: opposing traffic lanes

separated by raised pavement markers.

ESCONDIDO WAY to EL VERANO WAY: opposing traffic lanes separated by painted line.

TOPOGRAPHY:

RALSTON AVENUE - controlled intersection: one (1) stop sign North bound.

ESCONDIDO WAY - controlled intersection: three (3) way stop;
North, East and South bound. "S" curve; sight
distance limited.

SOLANA DRIVE - controlled intersection: two (2) way stop; North and West bound. SOLANA DRIVE is the entrance to McDougal school.

EL VERANO WAY - controlled intersection: two (2) way stop East and South bound. "S" curve; sight distance limited.

FERNWOOD WAY - controlled intersection: three (3) way stop; East, South and West bound. Roadway curves to right; sight distance limited.

ALAMEDA DE LAS PULGAS - controlled intersection: four (4) way stop.

CHULA VISTA DRIVE is an upgrade from RALSTON AVENUE to EL VERANO WAY. CHULA VISTA DRIVE is a downgrade from FERNWOOD WAY to ALAMEDA DE LAS PULGAS.

DEVELOPMENT:

Residential. Pedestrian right-of-way (sidewalk) on both sides of street from SOLANA DRIVE to ALAMEDA DE LAS PULGAS.



DIRECTION:

Both

TRAFFIC LANES:

Two (2) lane

Opposing lanes separated by raised pavement markers

Width: approximately 18 feet

TOPOGRAPHY:

RALSTON AVENUE - controlled intersection: one (1) stop sign South bound.

- CLEE STREET controlled intersection: one (1) stop sign East bound.
- BELBURN DRIVE controlled intersection: one (1) stop sign East bound. One marked pedestrian crossway.
- FRANCIS AVENUE controlled intersection: three (3) way stop;
 North, East and South bound. FRANCIS AVENUE is
 the entrance to Notre Dame Elementary School.
- FOLGER DRIVE controlled intersection: one (1) stop sign South bound. Roadway curves to left; sight distance limited.
- ARBOR AVENUE controlled intersection: two (2) way stop; East and South bound. Roadway curves to right; sight distance limited.
- TERRACE DRIVE controlled intersection: one (1) stop sign East bound. "S" curve; sight distance limited.
- FOLGER DRIVE controlled intersection: one (1) stop sign West bound. Roadway curves to left; sight distance limited.
- MANZANITA AVENUE controlled intersection: one (1) stop sign East bound. Roadway curves to left; sight distance limited.
- MIDDLE ROAD controlled intersection: one (1) stop sign West bound.
- NORTH ROAD controlled intersection: one (1) stop sign West bound. "S" curve; sight distance limited.
- VALLEY VIEW controlled intersection: one (1) stop sign East bound.
- RIDGE ROAD controlled intersection: one (1) stop sign West bound. Roadway curves to left; sight distance limited



NOTRE DAME AVENUE 900-2000 BLOCK, cont.

WINDING WAY, PINE KNOLL DRIVE AND HILLMAN AVENUE - controlled intersection: six (6) way stop. Roadway curves to right; sight distance limited.

MEZES AVENUE - controlled intersection: four (4) way stop.

BELLE MONTI AVENUE - controlled intersection: one (1) stop sign North bound. Roadway curves to right; sight distance limited.

MILLER AVENUE - controlled intersection: three (3) way stop; East, South and West bound. Roadway curves to right; sight distance limited.

ALAMEDA DE LAS PULGAS - controlled intersection: four (4) way stop.

NOTRE DAME AVENUE is an upgrade from FRANCIS AVENUE to MANZANITA AVENUE and from NORTH ROAD to RIDGE ROAD.

DEVELOPMENT:

Residential.

HILLER STREET 100-1200 BLOCK

DIRECTION:

North and South bound

TRAFFIC LANES:

Two (2) lanes

Width: approximately 37 feet, North of Ralston Avenue 27 feet, South of Ralston Avenue

TOPOGRAPHY:

STERLING VIEW AVENUE - controlled intersection: one (1) stop sign East bound.

DALE VIEW AVENUE - controlled intersection: one (1) stop sign East bound.

CHESTERTON AVENUE - controlled intersection: one (1) stop sign West bound.

CREST VIEW AVENUE - controlled intersection: one (1) stop sign East bound. Roadway curves to left, sight distance acceptable.

SUSSEX COURT - controlled intersection: one (1) stop sign East bound.

MARINE VIEW - controlled intersection: four (4) way stop.

MIDDLESEX ROAD - controlled intersection: one (1) stop sign East bound.

ROXBURY WAY - controlled intersection: one (1) stop sign East bound. Roadway curves to right, sight distance acceptable.

CAMBRIDGE STREET - controlled intersection: two (2) way stop; East and South bound.

BRIARFIELD WAY - controlled intersection: one (1) stop sign West bound.

CORNISH WAY - controlled intersection: one (1) stop sign West bound. One marked pedestrian crossway.

BIDDULPH WAY - controlled intersection: one (1) stop sign East bound. BIDDULPH WAY is the entrance to Nesbit School.

OXFORD WAY - controlled intersection: two (2) way stop; North and East bound. Roadway curves to right, sight distance limited.



HILLER STREET 100-1200 BLOCK, cont.

WESSEX WAY - controlled intersection: two (2) way stop; East and West bound. Roadway curves to left, sight distance limited.

MASONIC WAY - controlled intersection: one (1) stop sign East bound.

RALSTON AVENUE - major arterial: controlled intersection, traffic signals.

RALSTON "Y" SEPARATION - controlled intersection: two (2) way stop North and West bound.

O'NEILL AVENUE - controlled intersection: one (1) stop sign South bound.

DEVELOPMENT:

Residential and business. Pedestrian right-of-way, both sides of the street from STERLING VIEW to O'NEILL AVENUE.



CHESTERTON AVENUE 300-600 BLOCK

DIRECTION:

North and South bound

TRAFFIC LANES:

Two (2) lanes

Width: approximately 30 feet

TOPOGRAPHY:

HILLER STREET - controlled intersection: one (1) stop

sign West bound. Roadway curves to right;

sight distance limited.

MOUNTAIN VIEW AVENUE - uncontrolled; sight distance acceptable.

MARINE VIEW AVENUE - controlled intersection: four (4) way stop.

BRIARFIELD WAY - uncontrolled; sight distance acceptable.

CORNISH WAY - uncontrolled; sight distance acceptable.

OXFORD WAY - controlled intersection: one (1) stop sign South bound.

DEVELOPMENT:

Residential



SAN JUAN BOULEVARD 2800-3000 BLOCK

DIRECTION:

East and West

TRAFFIC LANES:

Two (2) lanes

Width: approximately 24 feet

TOPOGRAPHY:

CIPRIANI BOULEVARD - controlled intersection: one (1) stop sign East bound. Downgrade; road curves to left at 2804 SAN JUAN BOULEVARD, sight distance acceptable. Roadway curves to right at 2816 SAN JUAN BOULEVARD, sight distance acceptable. Roadway curves to right at 2832 SAN JUAN BOULEVARD, sight distance acceptable. Grade steepens approaching intersection of Monte Cresta.

MONTE CRESTA DRIVE - controlled intersection: three (3) way stop; North, South and West bound. Road-way curves to left at 2904 SAN JUAN BOULE-VARD, sight distance acceptable. "S" curve from left to right between 2914 and 2920 SAN JUAN BOULEVARD, sight distance limited.

MARBURGER AVENUE - "S" curve from right to left between 2934 and 3009 SAN JUAN BOULEVARD, sight distance limited. Roadway curves to right at 3020 SAN JUAN BOULEVARD, sight distance acceptable. Roadway steepens at 3030 SAN JUAN BOULEVARD, sight distance limited. Roadway curves to right at 3017 SAN JUAN BOULEVARD, sight distance limited.

EAST LAUREL CREEK ROAD - unpaved; minor traffic.

BARTLETT WAY - unpaved; minor traffic.

DEVELOPMENT: Residential



SHOREWAY ROAD - EAST CITY LIMITS TO SOUTH CITY LIMITS

DIRECTION:

North and South

TRAFFIC LANES:

Two (2) lanes separated by painted line Width approximately 22 feet average

TOPOGRAPHY:

EAST CITY LIMITS - Roadway curves to left; sight distance limited. Roadway curves to left; sight distance acceptable.

SEM LANE - controlled intersection: one (1) stop sign West bound.

SOUTH CITY LIMITS - goes straight to San Carlos.

DEVLEOPMENT:

Business including one large hotel.



DAVEY GLEN ROAD 200-500 BLOCK

DIRECTION:

Both

TRAFFIC LANES:

Two (2) lanes

Opposing lanes separated by painted line

Width: approximately 38 feet

TOPOGRAPHY:

EL CAMINO REAL - controlled intersection: one (1) stop sign East bound. Roadway curves to left; sight distance limited.

MIDDLE ROAD - controlled intersection: one (1) stop sign South bound.

DAVEY GLEN ROAD is an upgrade from EL CAMINO REAL to MIDDLE ROAD.

DEVELOPMENT:

Residential and residential structures; meaning apartment buildings



CARLMONT DRIVE 2100-2500 BLOCK

DIRECTION:

East and West bound

TRAFFIC LANES:

Two (2) lanes

Width: approximately 33 feet

TOPOGRAPHY:

ALAMEDA DE LAS PULGAS - controlled intersection: three (3) way stop; North, South and West bound. Upgrade.

VILLAGE DRIVE - roadway curves to left; downgrade, sight distance limited.

HASTINGS DRIVE - downgrade and upgrade.

MERRY MOPPET LANE - controlled intersection: one (1) stop sign West bound. Roadway curves to left, sight distance limited.

MULBERRY COURT - roadway curves to left, sight distance acceptable.

LAKE ROAD - controlled intersection: one (1) stop sign South bound. Roadway curves to left; upgrade, sight distance limited.

Between LAKE ROAD and the end of CARLMONT DRIVE is the Jewish Community Center.

DEVELOPMENT:

Business and residential structures, meaning apartment buildings. Pedestrian right of way on both sides of street from ALAMEDA DE LAS PULGAS to end CARLMONT DRIVE.



HASTINGS DRIVE 2200-2600 BLOCK

DIRECTION:

North and South bound

TRAFFIC LANES:

Two (2) Lanes

Width: approximately 34 feet

TOPOGRAPHY:

CARLMONT - one stop sign southbound. Roadway steep upgrade/downgrade.

CLIFFSIDE COURT - one stop sign southbound. Roadway curves to left.

RIDGEWOOD COURT - one stop sign southbound. Roadway continues uphill.

BRIDGE COURT - one stop sign southbound. Roadway continues uphill.

PARKRIDGE COURT - one stop sign southbound. Road continues to Cranfield.

CRANFIELD - Intersection of Hastings east-west route into San Carlos.

DEVELOPMENT:

Residential structures, meaning townhouses.



LYALL WAY - CONTINENTALS TO RALSTON

DIRECTION

East and West bound

TRAFFIC LANES:

Two (2) Lanes

Width: approximately 32 feet

TOPOGRAPHY:

CONTINENTALS WAY - one stop West bound

LAKE ROAD - one stop East bound

MERRY MOPPETT LANE - one way route to Carlmont

RALSTON AVENUE - Controlled intersection: one stop East bound

DEVELOPMENT:

Residential structures (Norman Place) and Merry Moppett School on south side.





